



Blu-ray Disc/DVD Home Theatre System

Operating Instructions

BDV-HZ970W / IZ1000W

WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus. Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

Indoor use only.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Blu-ray Disc / DVD Home Theatre System is harmful to eyes, do not attempt to disassemble the cabinet.

Refer servicing to qualified personnel only.



This appliance is classified as a CLASS 3R LASER product. Visible and invisible laser radiation is emitted when the laser protective housing is opened, so be sure to avoid direct eye exposure.

This marking is located on the laser protective housing inside the enclosure.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the laser protective housing inside the enclosure.

Precautions

On power sources

- The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.
- As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

On watching 3D video images

Some people may experience discomfort (such as eye strain, fatigue, or nausea) while watching 3D video images. Sony recommends that all viewers take regular breaks while watching 3D video images. The length and frequency of necessary breaks will vary from person to person. You must decide what works best. If you experience any discomfort, you should stop watching the 3D video images until the discomfort ends; consult a doctor if you believe necessary. You should also review (i) the instruction manual and/or the caution message of any other device used with, or Blu-ray Disc contents played with this product and (ii) our website (<http://esupport.sony.com/>) for the latest information. The vision of young children (especially those under six years old) is still under development. Consult your doctor (such as a pediatrician or eye doctor) before allowing young children to watch 3D video images.


Adults should supervise young children to ensure they follow the recommendations listed above.


For the customers in the U.S.A.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

These following indications are located on the rear exterior.



 This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located at the rear exterior of the control unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product. Model No. BDV-HZ970W Serial No. _____

The following FCC statement applies only to the version of this model manufactured for sale in the U.S.A. Other versions may not comply with FCC technical regulations.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (aerial).
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with The limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/ accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For the customers in Canada

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

For the wireless transceiver (EZW-RT10/EZW-RT10A) (For the customers in the U.S.A.)

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65.

This equipment should be installed and operated with at least 20cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles).



For the wireless transceiver (EZW-RT10/EZW-RT10A) (For the customers in Canada)

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with RSS-Gen of IC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

This equipment complies with IC radiation exposure limits set forth for uncontrolled equipment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment should be installed and operated with at least 20cm and more between the radiator and persons body (excluding extremities: hands, wrists, feet and ankles).

For the USB Wireless LAN Adapter (UWA-BR100)

Pursuant to FCC regulations, you are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Only use Wireless LAN indoors when using it with IEEE 802.11a (5 GHz).

High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and

5650-5850 MHz and these radars could cause interference and/or damage to this device.

This device uses 5 GHz band for wireless LAN communication and the maximum gain of the antenna in this device is 5 dBi.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body (excluding extremities: hands, wrists and feet).

This device and its antenna(s) must not be co-located or operating with any other antenna or transmitter except Grant condition.

If you have any questions about this product, contact Sony Customer Information Service Center at 1-800-222-7669 or visit <http://www.sony.com/> on the Internet.

The telephone number below is for FCC-related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY

Model: UWA-BR100

Responsible Party: Sony Electronics Inc.

Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A.

Telephone Number: 858-942-2230

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Copyrights and Trademarks

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license under U.S. Patent #s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

- This system incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc.

- “BD-LIVE” and “BONUSVIEW” are trademarks of Blu-ray Disc Association.
- “Blu-ray Disc” is a trademark.
- “Blu-ray Disc,” “DVD+RW,” “DVD-RW,” “DVD+R,” “DVD-R,” “DVD VIDEO,” and “CD” logos are trademarks.
- “Blu-ray 3D” and “Blu-ray 3D” logo are trademarks of Blu-ray Disc Association.
- “BRAVIA” is a trademark of Sony Corporation.
- “AVCHD” and the “AVCHD” logo are trademarks of Matsushita Electric Industrial Co., Ltd. and Sony Corporation.
- “S-AIR” and its logo are trademarks of Sony Corporation.
- “XMB,” and “xross media bar” are trademarks of Sony Corporation and Sony Computer Entertainment Inc.
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- Music and video recognition technology and related data are provided by Gracenote[®]. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, please visit www.gracenote.com. CD, DVD, Blu-ray Disc, and music and video-related data from Gracenote, Inc., copyright © 2000-present Gracenote. Gracenote Software, copyright © 2000-present Gracenote. One or more patents owned by Gracenote apply to this product and service. See the Gracenote website for a nonexhaustive list of applicable Gracenote patents. Gracenote, CDDB, MusicID, MediaVOCS, the Gracenote logo and logotype, and the “Powered by Gracenote” logo are either registered trademarks or trademarks of

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- “PhotoTV HD” and the “PhotoTV HD” logo are trademarks of Sony Corporation.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
- “Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- DLNA[®], the DLNA Logo and DLNA CERTIFIED[™] are trademarks, service marks, or certification marks of the Digital Living Network Alliance.
- Other system and product names are generally trademarks or registered trademarks of the manufacturers. [™] and [®] marks are not indicated in this document.

About These Operating Instructions

- The instructions in these Operating Instructions describe the controls on the remote. You can also use the controls on the unit if they have the same or similar names as those on the remote.
- In this manual, “disc” is used as a general reference for BDs, DVDs, Super Audio CDs, or CDs unless otherwise specified by the text or illustrations.
- The instructions in this manual are for BDV-HZ970W and BDV-IZ1000W. BDV-HZ970W is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, “BDV-HZ970W.”
- The items displayed on the TV screen may vary depending on the area.
- The default setting is underlined.
- The system is compatible with the S-AIR function, which allows transmission of sound between S-AIR products wirelessly. For details on the S-AIR function, see “Using an S-AIR Product” (page 46).
- Notes or instructions for the surround amplifier, surround back amplifier, or S-AIR receiver in these Operating Instructions refer only to when the surround amplifier, surround back amplifier, or S-AIR receiver is used.

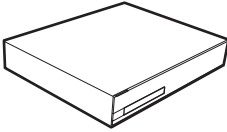
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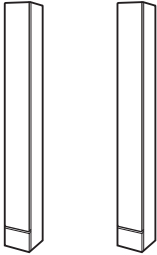
Unpacking

BDV-HZ970W

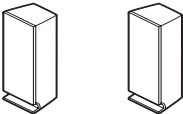
- Main unit (1)



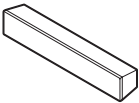
- Front speakers (2)



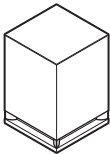
- Surround speakers (2)



- Center speaker (1)



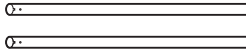
- Subwoofer (1)



- Bases for the front speakers (2)



- Posts for the front speakers (long) (2)



- Posts for the front speakers (short) (2)



- Screws for the front speakers (8)



- FM wire antenna (aerial) (1)



- Speaker cords (6, white/red/blue/gray/green/purple)



- Video cord (1)



- Remote commander (remote) (1)



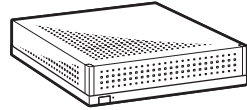
- R6 (size AA) batteries (2)



- Calibration mic (1)



- Surround amplifier (1)



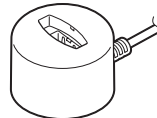
- Wireless transceivers (2)



- USB Wireless LAN Adapter (UWA-BR100)



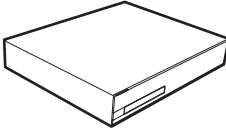
- UWA-BR100 External cable



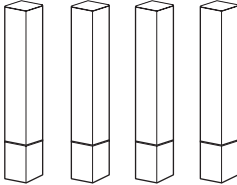
- Operating Instructions
- Speaker Installation Guide
- Quick Setup Guide
- End user license agreement
- Easy Setup Disc (DVD)

BDV-IZ1000W

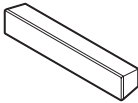
- Main unit (1)



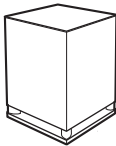
- Front and surround speakers (4)



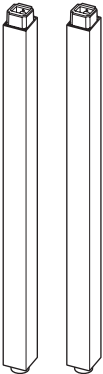
- Center speaker (1)



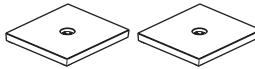
- Subwoofer (1)



- Front speaker stands (2)



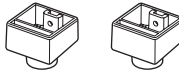
- Bases for the front speaker stands (2)



- Bases for the surround speakers (2)



- Base adapters for the surround speakers (2)



- Screws (with washer) for the front speakers (4)



- Screws for the front speakers/ surround speakers (4)



- FM wire antenna (aerial) (1)



- Speaker cords (6, white/red/ blue/gray/green/purple)



- Video cord (1)



- Remote commander (remote) (1)



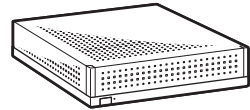
- R6 (size AA) batteries (2)



- Calibration mic (1)



- Surround amplifier (1)



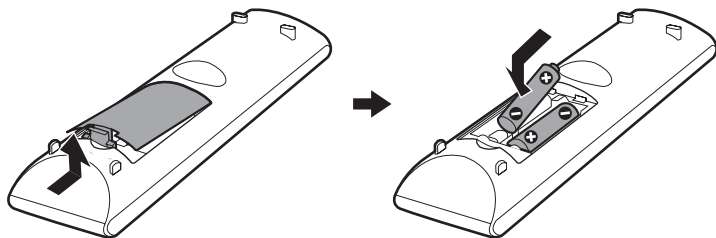
- Wireless transceivers (2)



- Operating Instructions
- Speaker Installation Guide
- Quick Setup Guide
- End user license agreement

Preparing the remote

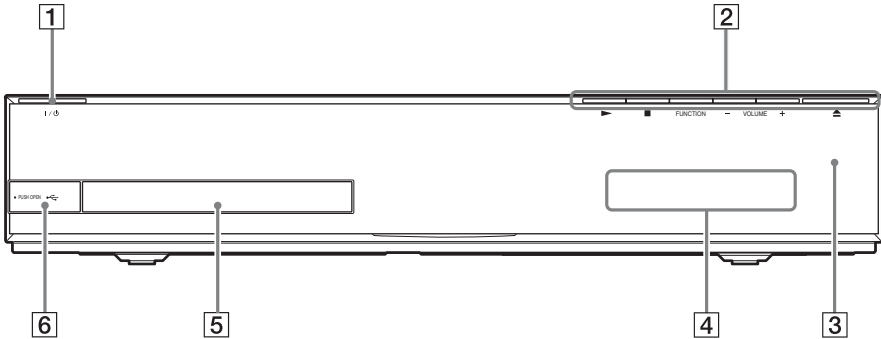
Insert two R6 (size AA) batteries (supplied) by matching the ⊕ and ⊖ ends on the batteries to the markings inside the compartment.



Index to Parts and Control

For more information, refer to the pages indicated in parentheses.

Front panel



1 **I/⏻ (on/standby)**

Turns on the unit, or sets it to standby mode.

2 **Play operation buttons**

▶ (play)

Starts or re-starts playback (resume play).
Plays a slideshow when a disc containing
JPEG image files is inserted.

■ (stop)

Stops playback and remembers the stop
point (resume point).

The resume point for a title/track is the last
point you played or the last photo for a
photo folder.

FUNCTION

Selects the playback source.

VOLUME +/-

Adjusts the system's volume.

▲ (open/close) (page 35)

Opens or closes the disc tray.

3 **□ (remote sensor)**

4 **Front panel display**

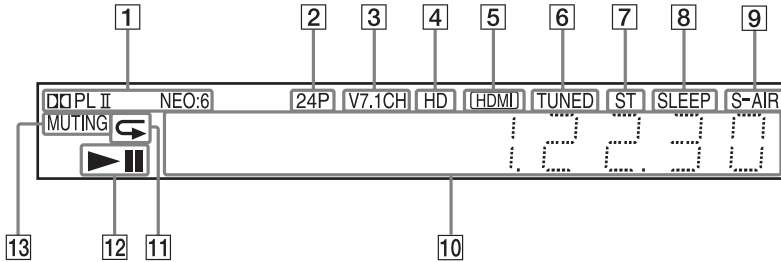
5 **Disc tray (page 35)**

6 **↔ (USB) port (page 36)**

Used for connecting a USB device.

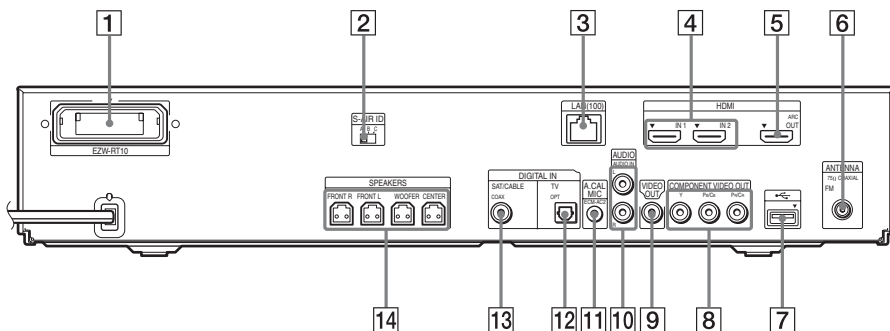
Front panel display

About the indications in the front panel display



- 1 Displays the current sound format.
- 2 Lights up when outputting 1920 x 1080p/24 Hz video signals.
- 3 Lights up while virtual 7.1ch decoding is activated.
- 4 Lights up when outputting 720p/1080i/1080p video signals from the HDMI (OUT) jack or 720p/1080i video signals from the COMPONENT VIDEO OUT jacks.
- 5 Lights up when the HDMI (OUT) jack is correctly connected to an HDCP (High-bandwidth Digital Content Protection)-compliant device with HDMI or DVI (Digital Visual Interface) input.
- 6 Lights up when a radio station is received. (Radio only) (page 44)
- 7 Lights up when stereo sound is received. (Radio only) (page 44)
- 8 Flashes when the sleep timer is set. (page 55)
- 9 S-AIR indicator (only when the wireless transceiver is inserted into the unit)
Lights up during wireless transmission. When [Standby] is set to [On], flashes when the main unit is in standby mode and wireless transmission between the main unit and S-AIR receiver is not activated. (page 46)
- 10 Displays system's status such as chapter, title, or track number, time information, radio frequency, playing status, surround setting, etc.
- 11 Lights up when repeat play is activated.
- 12 Displays system's playing status.
- 13 Lights up when muting is on.

Rear panel



- | | |
|--|---|
| <p>1 Wireless transceiver (EZW-RT10) slot (page 27)</p> <p>2 S-AIR ID switch (pages 29, 46)</p> <p>3 LAN (100) terminal (page 28)</p> <p>4 HDMI (IN 1/IN 2) jack (page 24)</p> <p>5 HDMI (OUT) jack (page 22)</p> <p>6 ANTENNA (75Ω COAXIAL FM) jack (page 26)</p> <p>7 (USB) port (pages 28, 36)</p> | <p>8 COMPONENT VIDEO OUT jacks (page 22)</p> <p>9 VIDEO OUT jack (page 22)</p> <p>10 AUDIO (AUDIO IN L/R) jacks (page 24)</p> <p>11 A.CAL MIC jack (pages 30, 52)</p> <p>12 DIGITAL IN (TV OPT) jack (page 23)</p> <p>13 DIGITAL IN (SAT/CABLE COAX) jack (page 24)</p> <p>14 SPEAKERS jacks (page 21)</p> |
|--|---|

Surround amplifier

Front panel



1 I/O (Power)

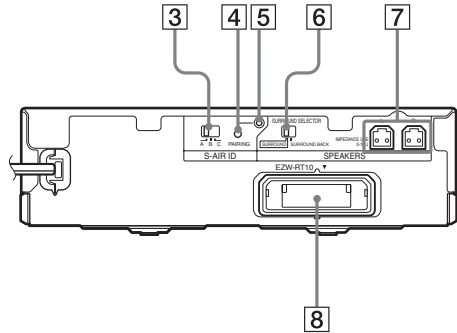
Turns the surround amplifier on/off.

2 S-AIR/STANDBY indicator

You can check the status of wireless transmission of surround speaker audio signals between the main unit and surround amplifier.

| Indicator | Status |
|------------------------|--|
| Turns green. | Wireless transmission between the main unit and the surround amplifier is established correctly and the main unit is transmitting audio signals to the surround speakers via the surround amplifier. |
| Flashes green quickly. | Wireless transmission between the main unit and the surround amplifier is established correctly, but audio signals to the surround speakers are not being transmitted by the main unit. |
| Flashes green slowly. | Wireless transmission between the main unit and the surround amplifier is not set up correctly. |
| Turns red. | Wireless transmission between the main unit and the surround amplifier is not set up, or either the surround amplifier or the whole system is in standby mode. |

Rear panel



| Indicator | Status |
|-----------------|--|
| Turns off. | The surround amplifier is turned off. |
| Flashes orange. | The wireless transceiver is not inserted/not fully inserted/inserted upside-down into the wireless transceiver slot. |
| Flashes red. | The surround amplifier's protection is active. |

3 S-AIR ID switch

Selects the S-AIR ID.

4 PAIRING button

Starts pairing.

5 PAIRING indicator

Indicates the pairing status.

6 SURROUND SELECTOR switch

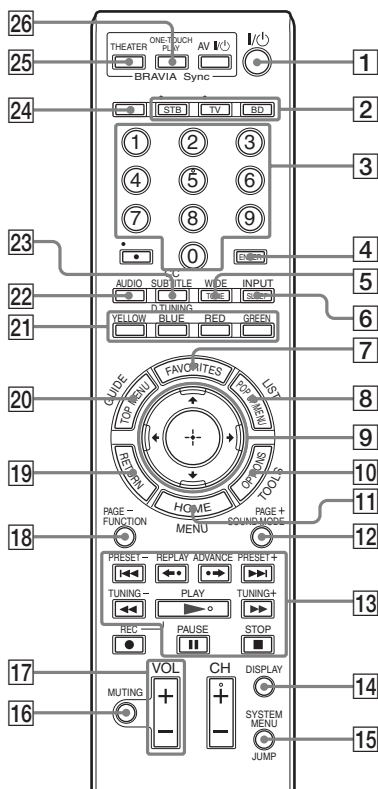
Selects the mode for the surround amplifier.

7 SPEAKERS jacks

8 Wireless transceiver (EZWR-RT10) slot

Remote control

The buttons for system operation only are described below. See “Controlling Your TV or Other Components with the Supplied Remote” (page 56) for the buttons for operation of the connected components.



- Number 5, AUDIO, CH +, and ► buttons have a tactile dot. Use the tactile dot as a reference when operating the remote.
- Names of buttons that work after pressing the TV or STB operation mode buttons are indicated with yellow label.

- I/O (on/standby) (pages 30, 44)**
Turns on the system or sets it to standby mode.
- Operation mode buttons (page 56)**
Changes the component to be operated on the remote.
STB: You can operate a cable box, digital satellite receiver, digital video receiver, etc.
TV: You can operate a TV.
BD: You can operate this Blu-ray Disc/DVD Home Theatre System.
- Number buttons (pages 45, 56)**
Enters the title/chapter numbers, radio frequencies, etc.
- ENTER (page 56)**
Enters the selected item.
- TONE (page 43)**
Adjusts the sound.
- SLEEP (page 55)**
Sets the sleep timer.
- FAVORITES**
Displays the contents of Internet entries added to the Favorites List. You can save 18 favorite Internet contents.
- POP UP/MENU**
Opens or closes the BD-ROM's Pop-up Menu, or the DVD's menu.
- ←/↑/↓/→**
Moves the highlight to a displayed item.
⊕ (ENTER)
Enters the selected item.
- OPTIONS (page 38)**
Displays the options menu on the TV screen.
- HOME (pages 30, 44, 46, 52, 53, 59)**
Enters or exits the system's home menu.
- SOUND MODE (page 41)**
Selects the sound mode.

13 Playback operation buttons

See “Playback” (page 35).

◀◀/▶▶ (previous/next)

Skip to the previous/next chapter, track, or file.

◀•/•▶ REPLAY/ADVANCE

Briefly replay the current scenes for 10 seconds./Briefly fast forwards the current scenes for 15 seconds.

◀◀/▶▶ (fast reverse/fast forward)

Fast reverse/fast forward the disc during playback. Each time you press the button, search speed changes.

Activates slow-motion play when pressed for more than one second in pause mode. Plays one frame at a time when pressed in pause mode.

▶ PLAY

Starts or re-starts playback (resume play). Plays a slideshow when a disc containing JPEG image files is inserted.

⏸ PAUSE

Pauses or re-starts playback.

■ STOP

Stops playback and remembers the stop point (resume point). The resume point for a title/track is the last point you played or the last photo for a photo folder.

Radio operation buttons

See “Tuner” (page 44).

PRESET +/-

TUNING +/-

14 DISPLAY (pages 35, 38)

Displays the playback information on the TV screen.

Displays stream information in the front panel display when: ① The function is set to “TV”/“SAT/CABLE”/“HDMI1”/“HDMI2,” and ② Digital signals are input via the DIGITAL IN/HDMI (IN 1)/HDMI (IN 2) jack.

15 SYSTEM MENU (pages 33, 40, 43, 44)

Enters the system menu.

16 MUTING

Turns off the sound temporarily.

17 VOL +/- (page 44)

Adjusts the volume.

18 FUNCTION (pages 32, 44)

Selects the playback source.

19 RETURN

Returns to the previous display.

20 TOP MENU

Opens or closes the BD’s or DVD’s Top Menu.

21 Color buttons (YELLOW/BLUE/RED/ GREEN)

Shortcut keys for selecting items on some Blu-ray menus (can also be used for Java interactive operations on BDs).

22 AUDIO (pages 41, 42)

Selects the audio format/track.

23 SUBTITLE (page 62)

Selects the subtitle language when multilingual subtitles are recorded on a BD-ROM/DVD VIDEO.

D.TUNING (Direct Tuning) (page 44)

Tunes in to the desired radio frequency.

24 ▲ (open/close) (page 35)

Opens or closes the disc tray.

25 THEATER (page 51)

Switches to the optimum video mode for watching movies automatically.

26 ONE-TOUCH PLAY (page 51)

Activates One-Touch Play.

Step 1: Installing the System

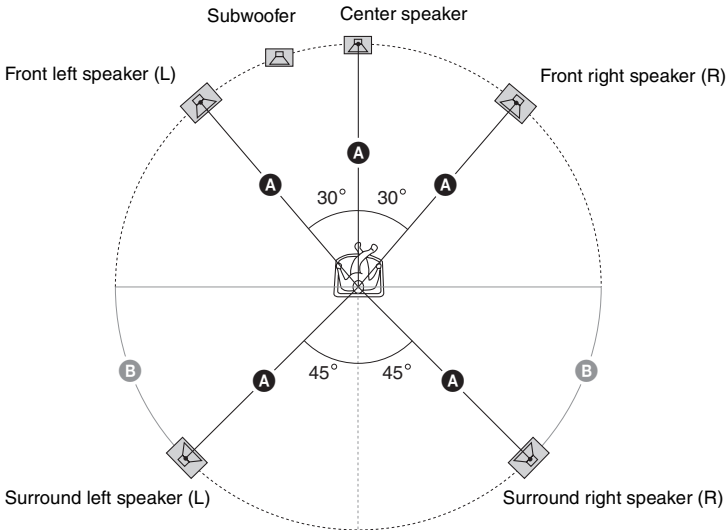
Positioning the speakers

For the best possible surround sound, place all speakers at the same distance from the listening position (A). The distance can be between 0 to 23 feet (0.0 to 7.0 meters).

If you cannot place the center speaker and surround speakers at the same distance as (A), place them within 23 feet (7.0 meters) of the listening position.

Place the surround speakers to the rear of the listening position (B).

The subwoofer can be placed anywhere in the room.



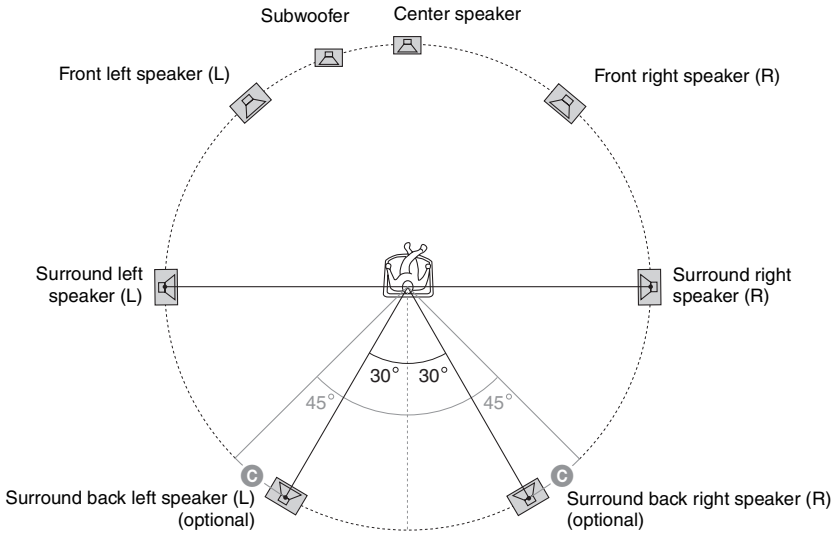
Note

- Use caution when placing the speakers and/or speaker stands attached to the speakers on a specially treated (waxed, oiled, polished, etc.) floor, as staining or discoloration may result.
- Do not lean or hang on a speaker, as it may fall down.

To add the optional surround back speakers

You can enjoy 7.1 surround sound by purchasing the Wireless Surround Speaker Kit (WAHT-SBP2, optional). The optional product lineup differs depending on the area.

For the position of the surround back speakers, refer the illustration below (C).



Note

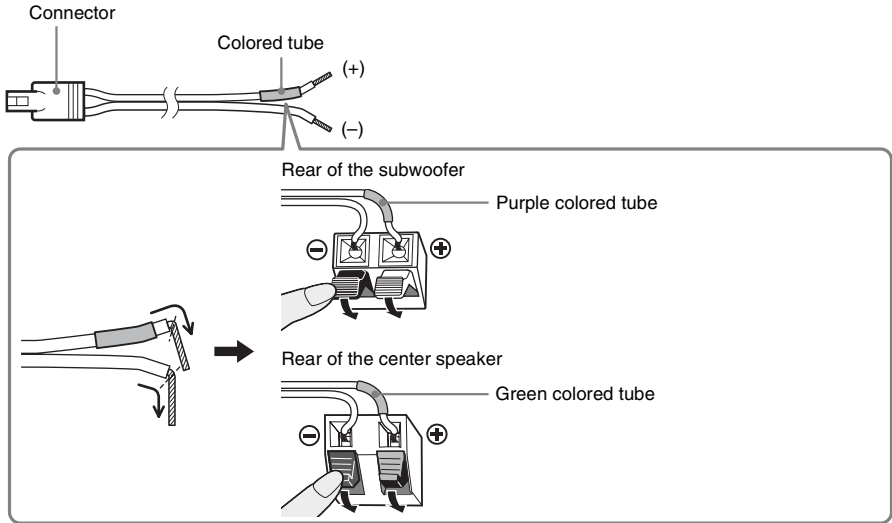
- To use the surround back speakers, set [Surround Back] (page 54) in [Speaker Settings] to [Yes] while performing the Easy Setup (page 30).

Assembling the speakers

For assembling the speakers, refer to “Speaker Installation Guide” (supplement).

To connect speaker cords to the center speaker and subwoofer (BDV-IZ1000W only)

Speaker terminals are located on the rear of the speakers.



When installing the speakers on a wall

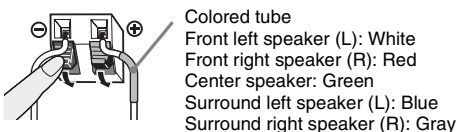
Caution

- Contact a screw shop or installer regarding the wall material or screws to be used.
- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam and fasten them to the wall. Install the speakers on a vertical and flat wall where reinforcement is applied.
- Sony is not responsible for accidents or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.

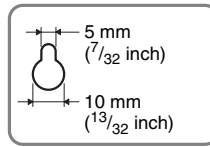
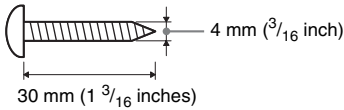
To install the speakers on a wall

Before installing the speakers on a wall, connect the speaker cord to the speaker.

Be sure to match the speaker cords to the appropriate terminals on the speakers: the speaker cord with the colored tube to ⊕, and the speaker cord without the colored tube to ⊖.



- 1** Prepare screws (not supplied) that are suitable for the hole on the back of each speaker. See the illustrations below.

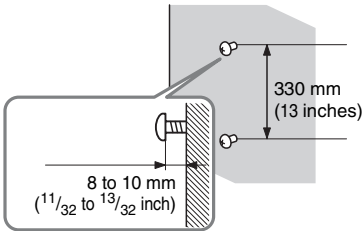


Hole on the back of the speaker

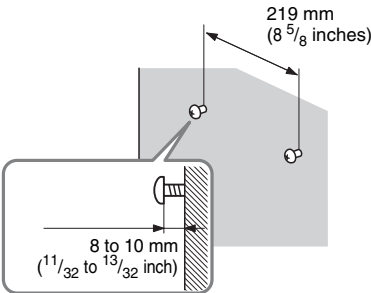
- 2** Fasten the screws to the wall.

BDV-HZ970W

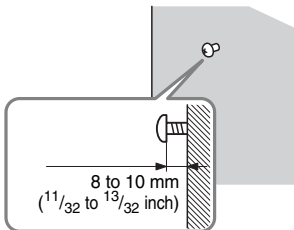
For the front speakers



For the center speaker

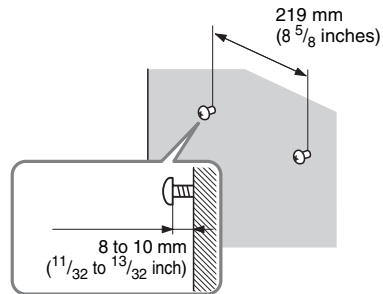


For the surround speakers

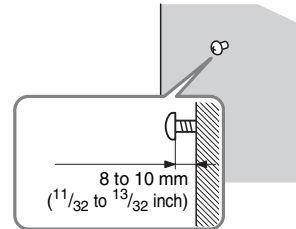


BDV-IZ1000W

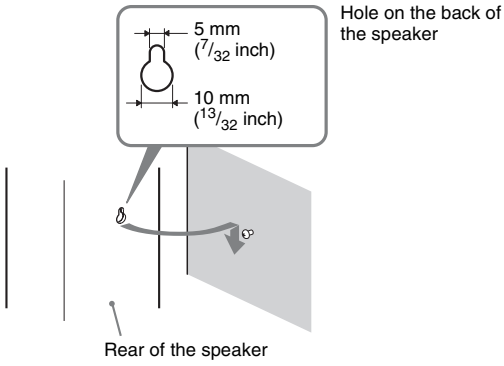
For the center speaker



For the other speakers



3 Hang the speakers on the screws.



Step 2: Connecting the System

For connecting the system, read the information on the following pages.

Do not connect the AC power cord (mains lead) of the unit to a wall outlet (mains) until all the other connections are made.

Note

- When you connect another component with a volume control, turn down the volume of the other components to a level where sound is not distorted.

Connecting the speakers

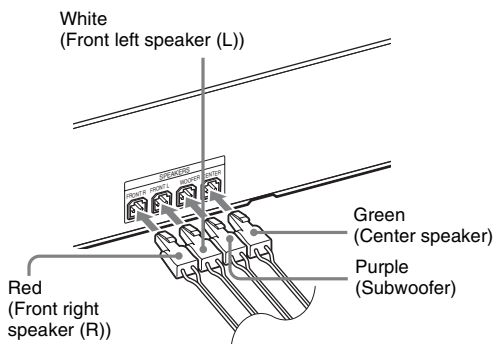
The connector of the speaker cords and the color tube are color-coded depending on the type of speaker. Connect the speaker cords to match the color of the SPEAKERS jacks of the unit.

Be sure to match the speaker cords to the appropriate terminals on the speakers: the speaker cord with the color tube to \oplus , and the speaker cord without the color tube to \ominus . Do not catch the speaker cord insulation (rubber covering) in the speaker terminals.

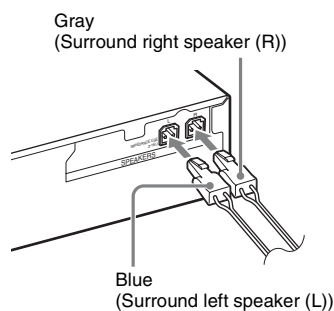
To connect speaker cords to the unit and surround amplifier

When connecting to the unit and surround amplifier, insert the connector until it clicks.

Rear panel of the unit



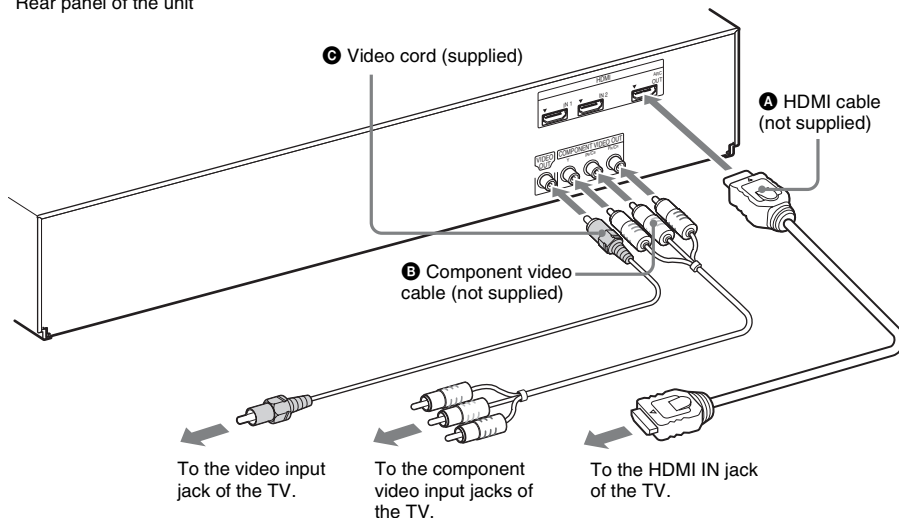
Rear panel of the surround amplifier



Connecting the TV (Video connection)

This connection sends a video signal to the TV.
Depending on the jacks on your TV, select the connection method.

Rear panel of the unit



Method 1: HDMI cable (A) connection

If your TV has an HDMI jack, connect to the TV with an HDMI cable. Picture quality will be improved compared to using the component video cable connection or the video cord connection. When connecting with the HDMI cable, you need to select the type of output signal (page 60).

Method 2: Component video cable (B) connection

If your TV does not have an HDMI jack, but has component video input jacks, connect to the TV with a component video cable. Picture quality will be improved compared to using the video cord connection.

When connecting with the component video cable, you need to select the type of output signal (page 60).

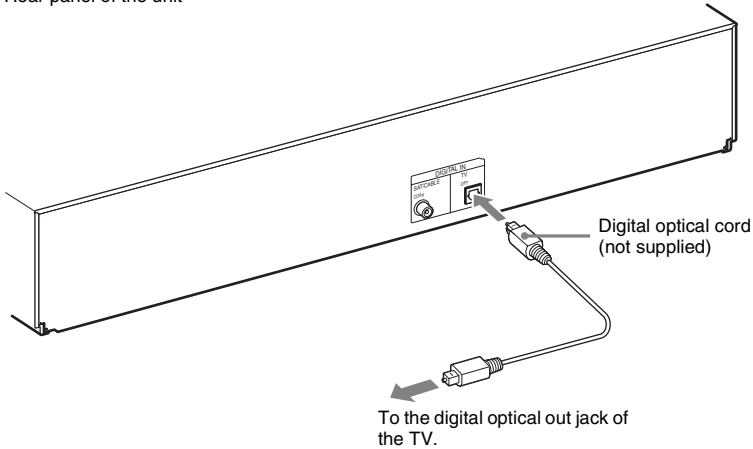
Method 3: Video cord (C) connection

If you do not have an HDMI cable or a component video cable, make this connection.

Connecting the TV (Audio connection)

This connection sends an audio signal to the unit from the TV. To listen to TV sound via the system, perform this connection.

Rear panel of the unit



With a digital audio connection, the system receives a Dolby Digital multiplex broadcast signal and you can enjoy multiplex broadcast sound.

Note

- When you connect the TV and the unit with an audio cord, see “Connecting the other components” (page 24).

About Audio Return Channel (ARC)

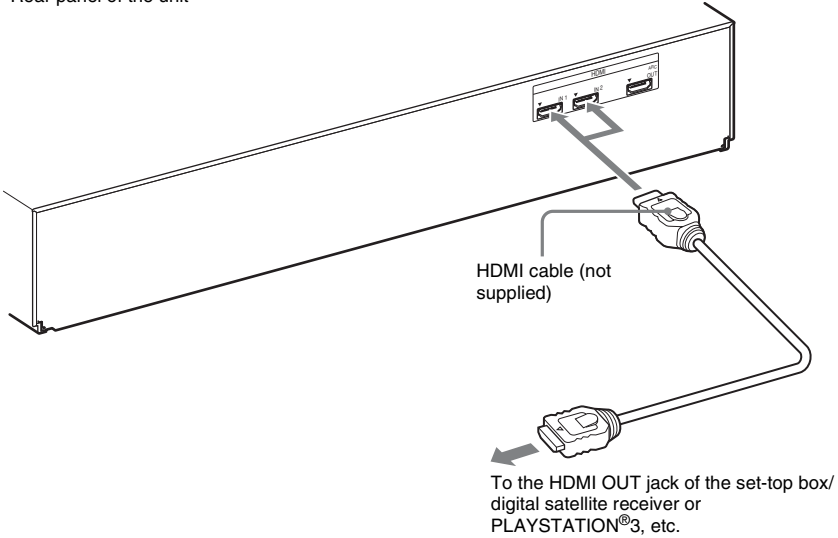
If your TV is compatible with the Audio Return Channel function, an HDMI cable connection also sends a digital audio signal from the TV. You do not need to make a separate audio connection for listening to TV sound. For details of the Audio Return Channel function, see [Audio Return Channel] (page 63).

Connecting the other components

When another component you wish to connect to the system has an HDMI OUT jack

You can connect a component that has an HDMI OUT jack such as a set-top box/digital satellite receiver or PLAYSTATION®3, etc., with an HDMI cable. An HDMI cable connection can send both video and audio signals. By connecting the system and the component using an HDMI cable, you can enjoy high-quality digital pictures and sound via the HDMI (IN 1) or HDMI (IN 2) jack.

Rear panel of the unit

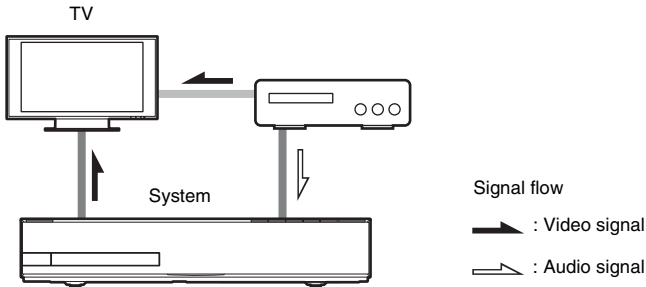


Note

- Video signals to the HDMI (IN 1/IN 2) jacks are output from the HDMI (OUT) jack only when the “HDMI1” or “HDMI2” function is selected.
- To output an audio signal from the HDMI (OUT) jack, you need to change the audio output setting. For details, see [Audio Output] in [Audio Settings] (page 61).

When the component does not have an HDMI OUT jack

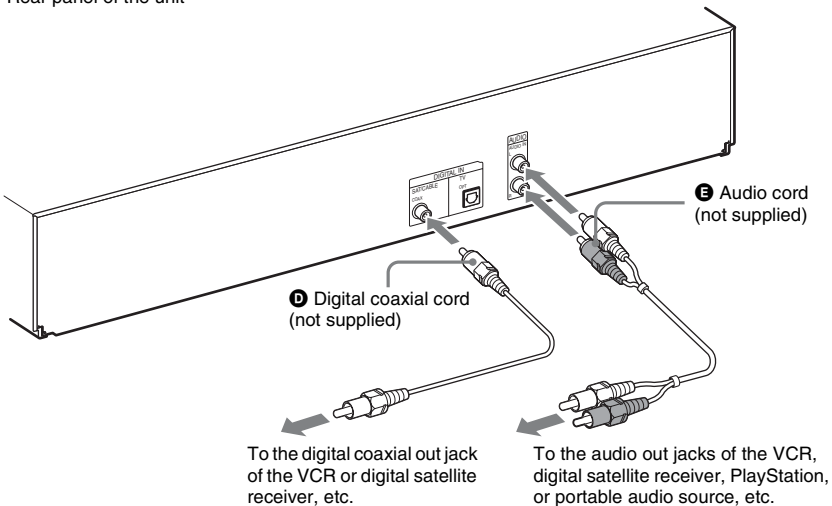
Video signals from the system and the components are sent to the TV, and audio signals from the components are sent to the system as follows.



You can enjoy connected components via the system's speakers.

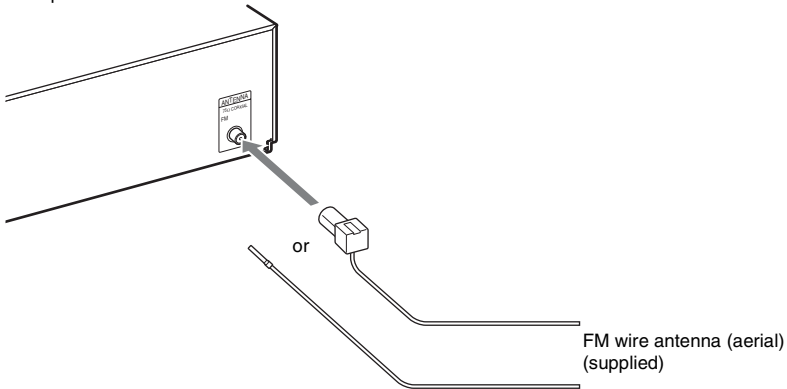
- VCR or digital satellite receiver, etc. (not supplied), which has a digital coaxial output jack: **D**
- VCR, digital satellite receiver, PlayStation, or portable audio source, etc. (not supplied): **E**

Rear panel of the unit



Connecting the antenna (aerial)

Rear panel of the unit

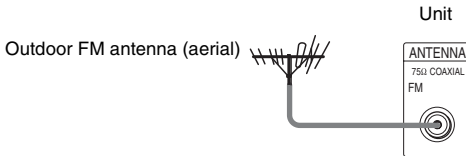


Note

- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.

Tip

- If you have poor FM reception, use a 75-ohm coaxial cable (not supplied) to connect the unit to an outdoor FM antenna (aerial) as shown below.



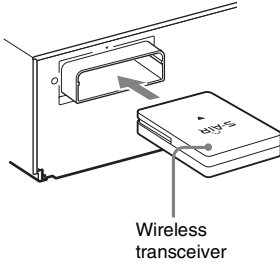
Inserting the wireless transceiver

You can transmit the audio signal from the main unit to an S-AIR product, such as the surround amplifier or S-AIR receiver.

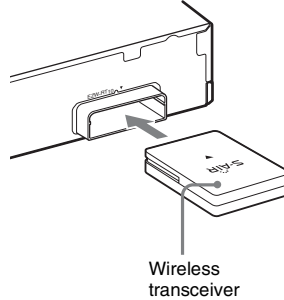
To transmit sound from the unit, insert one wireless transceiver into the main unit and the other one into the S-AIR product, e.g. the surround amplifier.

For details of S-AIR products, see “Using an S-AIR Product” (page 46).

Rear panel of the unit



Rear panel of the surround amplifier



Note

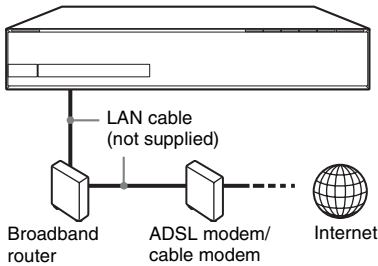
- Please make sure to fully insert the wireless transceiver into the wireless transceiver slot. You should hear a click when the wireless transceiver is inserted correctly.
- To avoid inserting the wireless transceiver upside-down, orient it with the Sony logo facing up.

Step 3: Connecting to the Network

Connecting the system to the Internet allows you to watch Internet video, listen to Internet audio, use BD-LIVE, and update the Home Theatre System software.

Wired Setup

Use a LAN cable to connect to the LAN (100) terminal on the unit.



Tip

- Using a shielded LAN cable, straight or crossing, is recommended.

To set the network settings


Select [Network Settings], [Internet Settings], then [Wired Setup] (page 64), and follow the on-screen instructions to complete the setup.

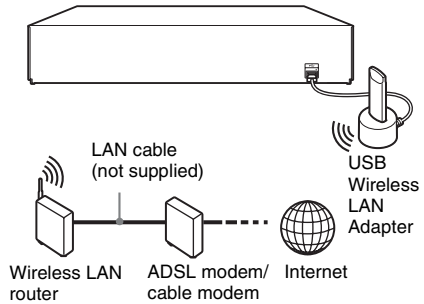
USB Wireless Setup

Use a wireless LAN via the USB Wireless LAN Adapter (Sony UWA-BR100* only) (supplied with BDV-HZ970W).

The USB Wireless LAN Adapter may not be available in some regions/countries.

* As of January 2010.

Turn the unit off before connecting the extension cable or inserting the USB Wireless LAN Adapter. After inserting the USB Wireless LAN Adapter to the base of the extension cable and connecting the extension cable to the  (USB) port (front or rear), turn the unit on again.



Note

- The placement distance between the USB Wireless LAN Adapter and your wireless LAN router differs depending on the usage environment. If the system cannot connect to the network or the network connection is unstable, move the USB Wireless LAN Adapter to a different position or place the USB Wireless LAN Adapter and the wireless LAN router closer to each other.

To set the network settings

Select [Network Settings], [Internet Settings], then [USB Wireless Setup] (page 64), and follow the on-screen instructions to complete the setup.

Tip

- For details on wireless network setup, please visit: <http://www.sony.com/blurrayhtsupport>

About wireless LAN security

Since communication via the wireless LAN function is established by radio waves, the wireless signal may be susceptible to interception. To protect wireless communication, this system supports various security functions. Be sure to correctly configure the security settings in accordance with your network environment.

No Security

Although you can easily make settings, anyone can intercept wireless communication or intrude into your wireless network, even without any sophisticated tools. Keep in mind that there is a risk of unauthorized access or interception of data.

WEP

WEP applies security to communications to prevent outsiders from intercepting communications or intruding into your wireless network. WEP is a legacy security technology that enables older devices, which do not support TKIP/AES, to be connected.

WPA-PSK (TKIP), WPA2-PSK (TKIP)

TKIP is a security technology developed to correct for the deficiencies of WEP. TKIP assures a higher security level than WEP.

WPA-PSK (AES), WPA2-PSK (AES)

AES is a security technology that uses an advanced security method that is distinct from WEP and TKIP. AES assures a higher security level than WEP or TKIP.

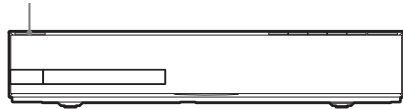
Step 4: Setting up the S-AIR Wireless System

Before performing Step 4

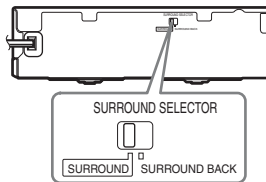
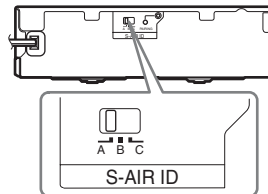
Make sure all connections are secure, and then connect the AC power cords (mains leads). To use the S-AIR wireless system, you need to set up the surround amplifier. The unit transmits sound to the surround amplifier that is connected to the surround speakers. To activate wireless transmission, perform the following Steps.

1 Press I/⏻ to turn the system on.

I/⏻

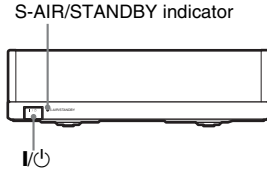


Make sure that “S-AIR” light up in the front panel display. When “S-AIR” does not light up, make sure that the wireless transceiver is inserted into the unit correctly.

2 Set the SURROUND SELECTOR switch of the surround amplifier to SURROUND.**3 Set the S-AIR ID switch of the surround amplifier to A.**

4 Press I/⏻ to turn the surround amplifier on.

When wireless transmission is activated, the S-AIR/STANDBY indicator turns green.



If the S-AIR/STANDBY indicator does not turn green, see “Surround amplifier” (page 13).

For details of the S-AIR function, see “Using an S-AIR Product” (page 46).

About the standby mode

The surround amplifier enters standby mode automatically (the S-AIR/STANDBY indicator turns red) when the main unit is in standby mode or wireless transmission is deactivated.

The surround amplifier turns on automatically (the S-AIR/STANDBY indicator turns green) when the system is turned on and wireless transmission is activated.

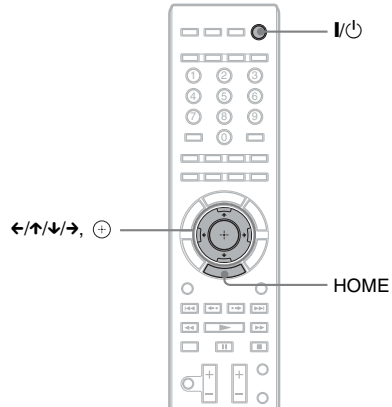
Step 5: Performing the Easy Setup

Follow the Steps below to make the basic adjustments for using the system.

Displayed items vary depending on the country model.

Note

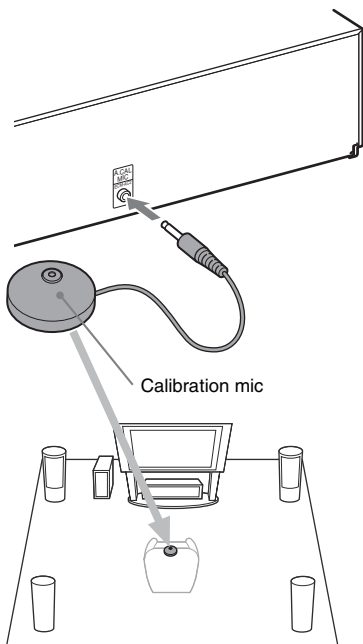
- To use the optional surround back speakers, set [Surround Back] in [Speaker Settings] to [Yes] (page 54).



1 Turn on the TV.

2 Connect the calibration mic to the A.CAL MIC jack on the rear panel.

Set up the calibration mic at ear level using a tripod, etc. (not supplied). The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.

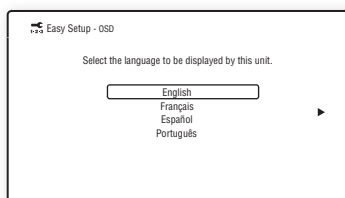


To recall the Easy Setup Display

- 1** Press **HOME**.
The home menu appears on the TV screen.
- 2** Press **←/→** to select **[Setup]**.
- 3** Press **↑/↓** to select **[Easy Setup]**, then press **+**.
- 4** Press **←/→** to select **[Start]**, then press **+**.
The Easy Setup Display appears.

- 3** Press **I/⏻** on the unit, and **I/⏻** on the surround amplifier.
- 4** Switch the input selector on your TV so that the signal from the system appears on the TV screen.

The Easy Setup Display for OSD language selection appears.

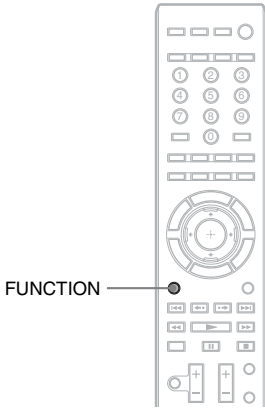


- 5** Perform the **[Easy Setup]**. Follow the on-screen instructions to make the basic settings using **←/↑/↓/→**, and **+**.

For details about [Auto Calibration] settings in [Easy Setup], see “Calibrating the Appropriate Settings Automatically” (page 52).

Step 6: Selecting the Source

You can select the playback source.



Press FUNCTION repeatedly until the desired function appears in the front panel display.

Each time you press FUNCTION, the function changes as follows.

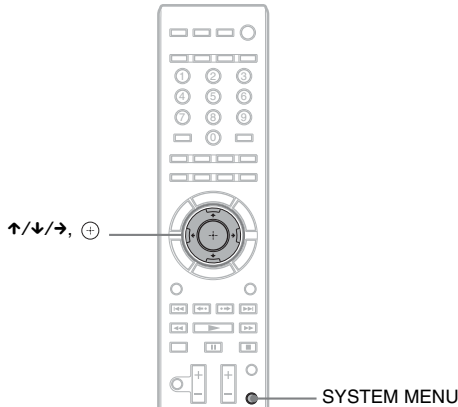
“BD/DVD” → “D. MEDIA” → “TUNER FM”
 → “HDMI1” → “HDMI2” → “TV” →
 “SAT/CABLE” → “AUDIO” → “BD/DVD”
 → ...

| Function | Source |
|---------------------|---|
| “BD/DVD” | Disc that is played by the system |
| “D. MEDIA” | USB device, iPod, BRAVIA Internet Video, or DLNA server |
| “TUNER FM” | FM radio (page 44) |
| “HDMI1”/ “HDMI2” | Component that is connected to the HDMI (IN 1) or HDMI (IN 2) jack on the rear panel (page 24) |
| “TV” | Component (TV, etc.) that is connected to the DIGITAL IN (TV OPT) jack on the rear panel, or a TV compatible with the Audio Return Channel function that is connected to the HDMI (OUT) jack on the rear panel (page 23). |

| Function | Source |
|-------------|---|
| “SAT/CABLE” | Component that is connected to the DIGITAL IN (SAT/CABLE COAX) jack on the rear panel (page 24) |
| “AUDIO” | Component that is connected to the AUDIO (AUDIO IN L/R) jacks on the rear panel (page 24) |

Step 7: Enjoying Surround Sound

After performing the previous Steps and starting playback, you can easily enjoy surround sound. You can also select pre-programmed surround settings that are tailored to different kinds of sound sources. They bring the exciting and powerful sound of movie theaters into your home.



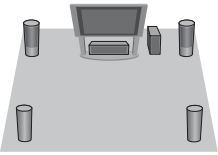
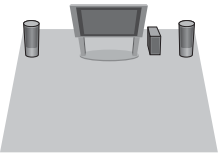
Selecting surround settings based on your listening preference

- 1** Press **SYSTEM MENU**.
- 2** Press **↑/↓** repeatedly until “**SUR.SETTING**” appears in the front panel display, then press **⊕** or **→**.
- 3** Press **↑/↓** repeatedly until the surround setting you want appears in the front panel display.
See the table below for surround sound setting descriptions.
- 4** Press **⊕**.
The setting is made.
- 5** Press **SYSTEM MENU**.
The system menu turns off.

About speaker output of each surround setting

The table below describes the options when you connect all the speakers to the unit.
The default setting is “A.F.D. 7.1CH.”

| Sound from | Surround setting | Effect |
|--------------------------|--|--|
| Depending on the source. | “A.F.D. STD” (AUTO FORMAT DIRECT STANDARD) | The system discriminates the sound format of the source and presents sound as it was recorded/encoded. |

| Sound from | Surround setting | Effect |
|---|---|--|
|  | "A.F.D. 7.1CH" (AUTO FORMAT DIRECT 7.1CH) | <ul style="list-style-type: none"> • 2 channel source: The system simulates surround sound from 2 channel sources and outputs sound from the 5.1 channel speakers by duplicating 2 channel source sound across each speaker. • Multi-channel source: The system creates the surround back sound virtually depending on the number of channels of the source and outputs the sound as 7.1 channel surround sound. |
| | "PRO LOGIC" "PLII MOVIE" "PLII MUSIC" | <ul style="list-style-type: none"> • 2 channel source: The system simulates surround sound from 2 channel sources and outputs sound from the 5.1 channel speakers. <ul style="list-style-type: none"> – "PRO LOGIC" performs Dolby Pro Logic decoding. – "PLII MOVIE" performs Dolby Pro Logic II movie mode decoding. – "PLII MUSIC" performs Dolby Pro Logic II music mode decoding. • Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source. |
| | "NEO6 CIN" "NEO6 MUS" | <ul style="list-style-type: none"> • 2 channel source: The system simulates surround sound from 2 channel sources and produces 6.1 channel sound. <ul style="list-style-type: none"> – "NEO6 CIN" performs DTS Neo:6 Cinema mode decoding. – "NEO6 MUS" performs DTS Neo:6 Music mode decoding. • Multi-channel source: The system outputs sound from the speakers depending on the number of channels of the source. |
|  | "2CH STEREO" | The system outputs the sound from the front speakers and subwoofer regardless of sound format or number of channels. Multi-channel surround formats are downmixed to 2 channels. |

Note

- When you select "A.F.D. 7.1CH," depending on the disc or source, the beginning of the sound may be cut off while the optimum mode is automatically selected. To avoid cutting the sound, select "A.F.D. STD."
- When bilingual broadcast sound is input, "PRO LOGIC," "PLII MOVIE," and "PLII MUSIC" are not effective.
- Depending on the input stream, the surround settings may not be effective.
- When changing the surround setting while using the S-AIR receiver, sound from the S-AIR receiver may skip.
- When you play a Super Audio CD, surround settings are not activated.

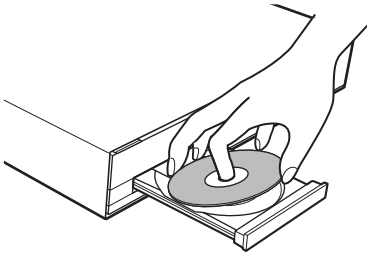
Tip

- The system memorizes the last surround setting selected for each function. Whenever you select a function such as "BD/DVD" or "TUNER FM," the surround setting that was last applied to the function is automatically applied again. For example, if you select "BD/DVD" with "PRO LOGIC" as the surround setting, then change to another function, and then return to "BD/DVD," "PRO LOGIC" will be applied again.

Playing a Disc

For playable discs, see “Playable Discs” (page 75).

- 1 Switch the input selector on your TV so that the signal from the system appears on your TV screen.
- 2 Press **▲**, and place a disc on the disc tray.



- 3 Press **▲** to close the disc tray.
 - appears on the home menu and playback starts.
 If playback does not start automatically, select ● in the [Video], [Music], or [Photo] category, and press ⊕.

Enjoying BONUSVIEW/BD-LIVE

Some BD-ROMs with “BD-LIVE” Logo* have bonus content and other data that can be downloaded for enjoyment.

* BD-LIVE™

- 1 Prepare for BONUSVIEW/BD-LIVE.
 - Connect the unit to a network (page 28).
 - Set [BD Internet Connection] to [Allow] (page 62).
- 2 Insert a BD-ROM with BONUSVIEW/BD-LIVE.

The operation method differs depending on the disc. Refer to the operating instructions of the disc.

Tip

- Delete unnecessary data in internal memory or USB memory. Select [Erase BD Data] in [Video] to delete unnecessary data. If you use USB memory as local storage, all saved data in the [BUDA/BUDB] folder is deleted. Make sure to backup any video/music/photo data in the [BUDA/BUDB] folder.

Enjoying Blu-ray 3D

You can enjoy Blu-ray 3D Discs with the 3D logo*.



- 1 Prepare for Blu-ray 3D Disc playback.
 - Connect the system to your 3D-compatible TV using a High-Speed HDMI cable (not supplied).
 - Set [3D Output Setting] and [TV Screen Size Setting for 3D] in [Screen Settings] (page 60).
- 2 Insert a Blu-ray 3D Disc.

The operation method differs depending on the disc. Refer to the operating instructions supplied with the disc.

Tip

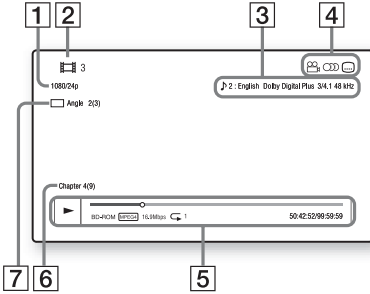
- Refer also to the operating instructions of your 3D-compatible TV.

Displaying the play information

You can check the playback information, etc., by pressing DISPLAY.

The displayed information differs depending on the disc type and player status.

Example: when playing a BD-ROM



- 1 Output resolution/Video frequency
- 2 Title number or name
- 3 The currently selected audio setting
- 4 Available functions (🗣️ angle, 🎧 audio, ⋯ subtitle)
- 5 Playback information
Displays disc type, play mode, repeat type, video codec, bit rate, playing status bar, playing time, total time
- 6 Chapter number
- 7 The currently selected angle

Playing from a USB Device

You can play video/music/photo files on the connected USB device.

For playable types of files, see “Playable Types of Files” (page 76).

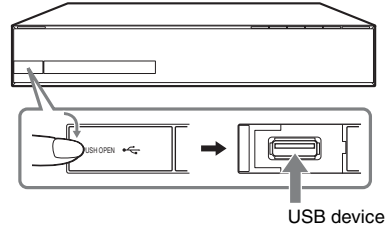
1 Connect the USB device to the (USB) port on the unit.

Refer to the operating instructions of the USB device before connecting.

Rear panel



Front panel



2 Press to select [Video], [Music], or [Photo].

3 Press / to select [USB device (front)] or [USB device (rear)], then press .

Note

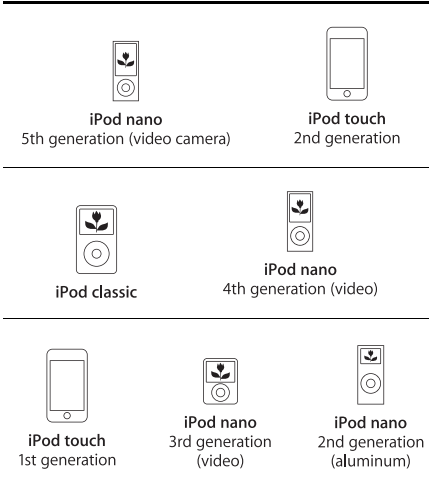
- Do not remove the USB device during operation. To avoid data corruption or damage to the USB device, turn the system off when connecting or removing the USB device.

Enjoying an iPod

You can enjoy the sound and charge the battery of an iPod via the system.

Compatible iPod models

The compatible iPod models are as follows.
Update your iPod with the latest software before using with the system.



- 1** Connect the iPod to the (USB) port on the unit with the iPod's USB cable.
- 2** Press to select [Music].
- 3** Press to select [iPod (front)], then press .

The sound from the iPod is played on the system.

You can operate the iPod using the buttons on the remote.

For operation details, refer to the operating instructions of the iPod.

To operate the iPod using the remote

You can operate the iPod using the buttons on the remote. The following table shows an example of buttons that can be used.

| Press | Operation |
|------------------|--|
| | Same operation as the button of the iPod. |
| | Pause. |
| | Fast reverse or forward. |
| | Same operation as the buttons of the iPod. |
| DISPLAY, RETURN, | Same operation as the MENU button of the iPod. |
| | |
| | Same operation as the Click Wheel of the iPod. |
| | Same operation as the Center button of the iPod. |

Note

- The iPod is charged when connected to the system while the system is turned on.
- You cannot transfer songs onto the iPod.
- Sony cannot accept responsibility in the event that data recorded to iPod is lost or damaged when using an iPod connected to this unit.
- This product has been designed specifically to work with iPod and has been certified to meet Apple performance standards.
- Do not remove the iPod during operation. To avoid data corruption or damage to the iPod, turn the system off when connecting or removing the iPod.

Playing via a Network

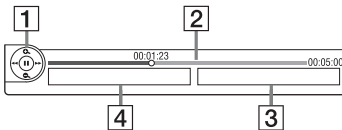
Streaming BRAVIA Internet Video

BRAVIA Internet Video serves as a gateway delivering the selected Internet content and a variety of on-demand entertainment straight to your unit.

- 1 Prepare for BRAVIA Internet Video.**
Connect the unit to a network (page 28).
- 2 Press \leftarrow/\rightarrow to select \square [Video], ♪ [Music], or 📷 [Photo].**
- 3 Press \uparrow/\downarrow to select an Internet content provider icon, then press \oplus .**
When the Internet content list has not been retrieved, it will be represented by an unacquired icon or a new icon.

To use the control panel

The control panel appears when the video file starts playing. The displayed items may differ depending on Internet content providers. To display again, press DISPLAY.



- 1 Control display**
Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ or \oplus for playback operations.
- 2 Playing status bar**
Status bar, cursor indicating the current position, playing time, duration of the video file
- 3 The next video file name**
- 4 The currently selected video file name and rating**

Playing files stored on a DLNA server

You can play video/music/photo files on your home server, such as a DLNA-certified network audio system or a PC with software that enables a DLNA-certified server function, by connecting the system to your home network.

- 1 Prepare for playing files on a DLNA server.**
 - Connect the unit to a network (page 28).
 - Set [Connection Server Settings] (page 65).
- 2 Press \leftarrow/\rightarrow to select \square [Video], ♪ [Music], or 📷 [Photo].**
- 3 Press \uparrow/\downarrow to select a DLNA server, then press \oplus .**
The file list or folder list appears.

Available Options

Various settings and playback operations are available by pressing OPTIONS. The available items differ depending on the situation.

Common options

| Items | Details |
|-------------------------|---|
| [Playback History List] | Displays titles/tracks in the playback history of a BD-ROM/DVD-ROM/CD-DA (music CD) using Gracenote technology. |
| [Search History] | Searches for related information based on keywords from Gracenote via the Information Display. |
| [Search Contents] | Searches for BRAVIA Internet Video content based on keywords from Gracenote via the Information Display. |
| [Repeat Setting] | Sets the repeat play. |
| [Favorites List] | Displays the Favorites List. |
| [Play/Stop] | Starts or stops playback. |

| Items | Details |
|-------------------------|--|
| [Play from beginning] | Plays the item from the beginning. |
| [Information Display] | Displays information on the BD-ROM/DVD-ROM/CD-DA (music CD) by using Gracenote technology. |
| [Add to Favorites] | Adds an Internet content to the Favorites List. |
| [Remove from Favorites] | Erases an Internet content from the Favorites List. |

 **[Video] only**

| Items | Details |
|---------------------|--|
| [3D Output Setting] | <ul style="list-style-type: none"> • Sets whether or not to output 3D video automatically. <p>Note</p> <ul style="list-style-type: none"> • 3D video from the HDMI (IN 1) or HDMI (IN 2) jack is output regardless of this setting. |
| [Video Settings] | <ul style="list-style-type: none"> • [Picture Quality Mode]: Selects the picture settings for different lighting environments. • [FNR]: Reduces the random noise appearing in the picture. • [BNR]: Reduces the mosaic-like block noise in the picture. • [MNR]: Reduces minor noise around the picture outlines (mosquito noise). |
| [Play/Pause] | Starts or pauses playback. |
| [Top Menu] | Displays the BD's or DVD's Top Menu. |
| [Menu/Popup Menu] | Displays the BD-ROM's Pop-up Menu or DVD's menu. |
| [Title Search] | Searches for a title on BD-ROMs/DVD VIDEOS and starts playback from the beginning. |
| [Chapter Search] | Searches for a chapter and starts playback from the beginning. |

| Items | Details |
|------------------------------|--|
| [Angle] | Switches to other viewing angles when multi-angles are recorded on BD-ROMs/DVD VIDEOS. |
| [IP Content Noise Reduction] | Adjusts the video quality for Internet content. |

 **[Music] only**

| Items | Details |
|---------------------|--|
| [Add Slideshow BGM] | Registers music files in the USB memory as slideshow background music. |

 **[Photo] only**

| Items | Details |
|--------------------|---|
| [Slideshow] | Starts a slideshow. |
| [Slideshow Speed] | Changes the slideshow speed. |
| [Slideshow Effect] | Sets the effect when playing a slideshow. |
| [Slideshow BGM] | <ul style="list-style-type: none"> • [Off]: Turns off the function. • [My Music from USB]: Sets the music files registered in [Add Slideshow BGM]. If no music file is registered, [(Not registered)] is displayed. • [Play from disc]: Sets the tracks on CD-DAs (music CDs). |
| [Rotate Left] | Rotates the photo counterclockwise by 90 degrees. |
| [Rotate Right] | Rotates the photo clockwise by 90 degrees. |
| [View Image] | Displays the selected picture. |

Adjusting the delay between the picture and sound

(A/V SYNC)

When the sound does not match the pictures on the TV screen, you can adjust the delay between the picture and sound.

- 1** Press **SYSTEM MENU**.
- 2** Press **↑/↓** repeatedly until “A/V SYNC” appears in the front panel display, then press **⊕** or **→**.
- 3** Press **↑/↓** to adjust the delay between the picture and sound.

You can adjust from 0 ms to 300 ms in 25 ms increments.

- 4** Press **⊕**.
The setting is made.

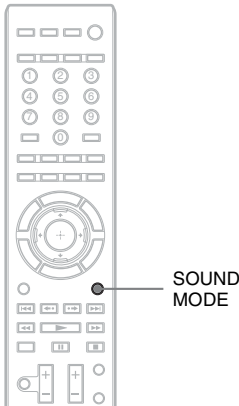
- 5** Press **SYSTEM MENU**.
The system menu turns off.

Note

- Depending on the input stream, A/V SYNC may not be effective.

Selecting the Effect to Suit the Source

You can select a suitable sound mode for movies or music.



Press SOUND MODE repeatedly during playback until the desired mode appears in the front panel display.

- **“AUTO”**: The system selects “MOVIE” or “MUSIC” automatically to produce the sound effect depending on the disc or sound stream.
- **“MOVIE”**: The system provides the sound for movies.
- **“HD-D.C.S.”**: For movies on Blu-ray and DVD, etc., “HD-D.C.S.” realizes precise sound effects the way the Movie Sound Designers intended for them to be.
- **“3D SUR.”**: “3D SUR.” is a unique Sony algorithm used for playing 3D (three-dimensional) content that provides a 3D sound experience with depth and presence by creating a virtual sound field close to your ears.
- **“MUSIC”**: The system provides the sound for music.
- **“SPORTS”**: The system adds reverberation for sports programs.
- **“NEWS”**: The system provides the sound for voice programs, such as news.

- **“GAME ROCK”**: The system provides the sound for music/rhythm games.
- **“OMNI-DIR”**: The same sound is audible anywhere in the room.

Note

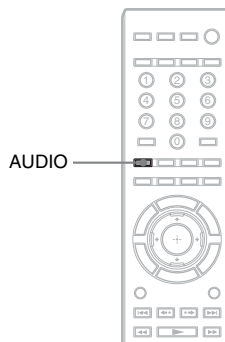
- Depending on the disc or source, when you select “AUTO,” the beginning of the sound may be cut off as the system selects the optimum mode automatically. To avoid cutting the sound, select other than “AUTO.”
- Depending on the input stream, the sound mode may not be effective.
- When changing the sound mode while using the S-AIR receiver, sound from the S-AIR receiver may skip.
- When you play a Super Audio CD, this function does not work.

Selecting the Audio Format, Multilingual Tracks, or Channel

When the system is playing a BD/DVD VIDEO or DATA CD/DATA DVD (DivX video files*) recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS) or multilingual tracks, you can change the audio format or language.

With a CD, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers.

* Except for U.S. models.



Press AUDIO repeatedly during playback to select the desired audio signal.

The audio information appears on the TV screen.

■ BD/DVD VIDEO

Depending on the BD/DVD VIDEO, the choice of language varies.

When 4 digits are displayed, they indicate a language code. See “Language Code List” (page 81) to confirm which language the code represents. When the same language is displayed two or more times, the BD/DVD VIDEO is recorded in multiple audio formats.

■ DVD-VR

The types of sound tracks recorded on a disc are displayed.

Example:

- [♪ Stereo]
- [♪ Stereo (Audio1)]
- [♪ Stereo (Audio2)]
- [♪ Main]
- [♪ Sub]
- [♪ Main/Sub]

Note

- [♪ Stereo (Audio1)] and [♪ Stereo (Audio2)] do not appear when only one audio stream is recorded on the disc.

■ DATA CD (DivX video file)/DATA DVD (DivX video file) (Except for U.S. models)

The choice of DATA CD or DATA DVD audio signal formats differs, depending on the DivX video file contained on the disc. The format appears on the TV screen.

■ CD

- [♪ Stereo]: The standard stereo sound.
- [♪ 1/L]: The sound of the left channel (monaural).
- [♪ 2/R]: The sound of the right channel (monaural).

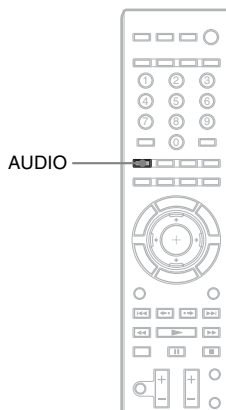
Enjoying Multiplex Broadcast Sound

(DUAL MONO)

You can enjoy multiplex broadcast sound when the system receives or plays a Dolby Digital multiplex broadcast signal.

Note

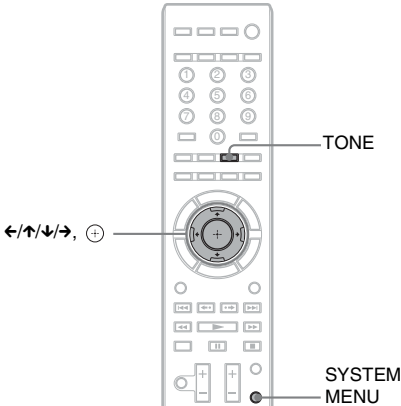
- To receive the Dolby Digital signal, you need to connect a TV or other component to the unit with a digital coaxial or optical cord (pages 23, 24). If your TV is compatible with the Audio Return Channel function (page 52), you can receive a Dolby Digital signal via an HDMI cable.



Press AUDIO repeatedly until the desired signal appears in the front panel display.

- “MAIN”: Sound of the main language will be output.
- “SUB”: Sound of the sub language will be output.
- “MAIN/SUB”: Mixed sound of both the main and sub languages will be output.

Using the Sound Effect



Changing the tonal balance

You can adjust the sound by changing the tonal balance of the sound.

1 Press TONE repeatedly until the desired setting appears in the front panel display.

- “BASS”: You can adjust the bass frequencies.
- “TREBLE”: You can adjust the treble frequencies.

2 Press \uparrow/\downarrow to adjust the sound.

The adjusted value appears in the front panel display. You can set the value from -6.0 to +6.0.

Enjoying sound at low volume

You can enjoy sound effects or dialog, as you would in a movie theater, even at low volume. It is useful for watching movies at night.

1 Press SYSTEM MENU.

2 Press \uparrow/\downarrow repeatedly until “NIGHT MODE” appears in the front panel display, then press \oplus or \rightarrow .

3 Press \uparrow/\downarrow to select a setting.

- “NIGHT ON”: On.
- “NIGHT OFF”: Off.

4 Press SYSTEM MENU.

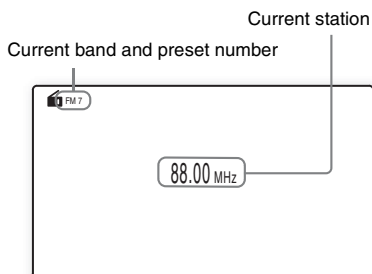
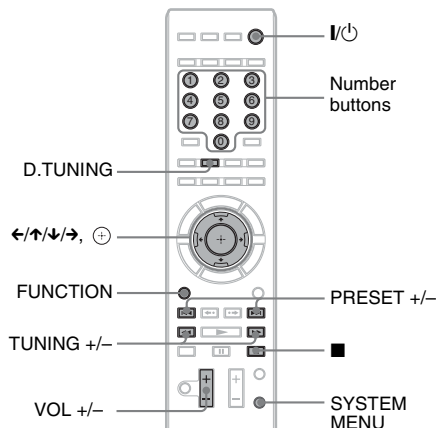
The system menu turns off.

Note

- When sound is output from the center speaker, this effect is more pronounced, as speech (movie dialog, etc.) is easy to hear. When sound is not output from the center speaker, the system optimally adjusts the volume.

Listening to the Radio

You can enjoy radio sound with the system's speakers.



- 1 Press **FUNCTION** repeatedly until “**TUNER FM**” appears in the front panel display.

- 2 Select the radio station.

Automatic tuning

Press and hold **TUNING +/-** until the auto scanning starts.

[Auto Tuning] appears on the TV screen. Scanning stops when the system tunes in a station.

To stop the automatic tuning manually, press **TUNING +/-**.

Manual tuning

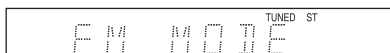
Press **TUNING +/-** repeatedly.

- 3 Adjust the volume by pressing **VOL +/-**.

If an FM program is noisy

If an FM program is noisy, you can select monaural reception. There will be no stereo effect, but reception will improve.

- 1 Press **SYSTEM MENU**.
- 2 Press **↑/↓** repeatedly until “**FM MODE**” appears in the front panel display.



- 3 Press **⊕** or **→**.
- 4 Press **↑/↓** to select “**MONO.**”
 - “**STEREO**”: Stereo reception.
 - “**MONO**”: Monaural reception.

- 5 Press **SYSTEM MENU**.
The system menu turns off.

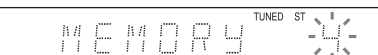
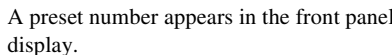
To turn off the radio

Press **I/Power**.

Presetting radio stations

You can preset up to 20 stations. Before tuning, make sure to turn down the volume to minimum.

- 1 Press **FUNCTION** repeatedly until “**TUNER FM**” appears in the front panel display.
- 2 Press and hold **TUNING +/-** until the auto scanning starts.
Scanning stops when the system tunes in a station.
- 3 Press **SYSTEM MENU**.
- 4 Press **↑/↓** repeatedly until “**MEMORY**” appears in the front panel display, then press **⊕** or **→**.



- 5** Press \uparrow/\downarrow to select the preset number you want.



Tip

- You can select the preset number directly by pressing the number buttons.

- 6** Press \oplus .
“COMPLETE” appears in the front panel display, and the station is stored.

- 7** Repeat Steps 2 to 6 to store other stations.

- 8** Press SYSTEM MENU.

The system menu turns off.

To change the preset number

Select the desired preset number by pressing PRESET +/-, then perform the procedure from Step 3.

Selecting the preset station

- 1** Press FUNCTION repeatedly until “TUNER FM” appears in the front panel display.

The last received station is tuned in.

- 2** Press PRESET +/- repeatedly to select the preset station.

The preset number and frequency appear on the TV screen and front panel display.

Each time you press the button, the system tunes in one preset station.

Tip

- You can select the preset station number directly by pressing the number buttons.

Selecting a radio station by inputting a frequency directly

When you know the frequencies, you can select radio stations by inputting the frequencies directly.

- 1** Press FUNCTION repeatedly until “TUNER FM” appears in the front panel display.

- 2** Press D.TUNING.

- 3** Press the number buttons to select the frequencies.

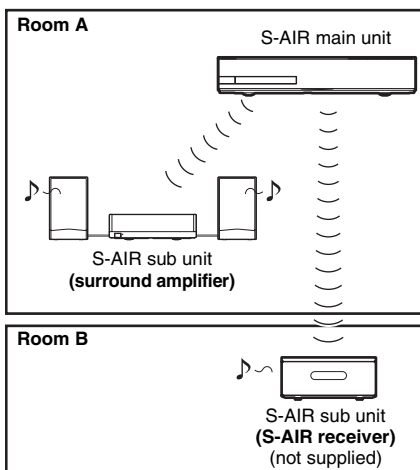
- 4** Press \oplus .

Using an S-AIR Product

About S-AIR products

There are two types of S-AIR product.

- S-AIR main unit (this unit): This is for transmitting sound. You can use up to three S-AIR main units. (The number of usable S-AIR main units depends on the use environment.)
- S-AIR sub unit: This is for receiving sound.
 - **Surround amplifier (supplied):** You can enjoy surround speaker sound wirelessly.
 - **S-AIR receiver (optional):** You can enjoy system sound in another room.



Setting the S-AIR ID to activate wireless transmission

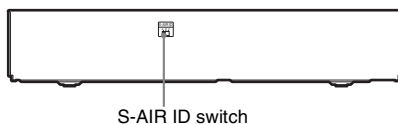
For the surround amplifier

For the S-AIR receiver

Simply by matching the ID of the unit and the S-AIR sub unit, you can activate wireless transmission.

To set the ID of the unit

- 1 Set the S-AIR ID switch of the unit to the desired ID.



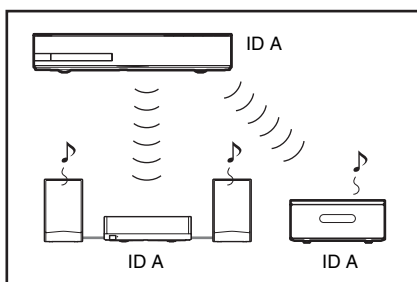
You can select any ID (A, B, or C).

- 2 Press I/⏻.

The system turns on.

- 3 Set the S-AIR sub unit to the same ID.

Wireless transmission is activated as follows (example):



To set the ID of the surround amplifier

- 1 Make sure that the SURROUND SELECTOR switch of the surround amplifier is set to SURROUND.
- 2 Set the S-AIR ID switch of the surround amplifier to match the ID (A, B, or C) of the unit.
- 3 Press I/⏻ on the surround amplifier.

When wireless transmission is activated, the S-AIR/STANDBY indicator of the surround amplifier turns green.

For details of the S-AIR/STANDBY indicator, see “Surround amplifier” (page 13).

To set the ID of the S-AIR receiver

Refer to the operating instructions of the S-AIR receiver.

To enjoy a 7.1 channel system


You can enjoy the more realistic surround sound effect of 7.1 channels when you use the Wireless Surround Speaker Kit (WAHT-SBP2, optional). For details, refer to the operating instructions of the Wireless Surround Speaker Kit.

In this case, set [Surround Back] in [Speaker Settings] to [Yes] (page 54).

Enjoying the system's sound in another room

For the S-AIR receiver

You can enjoy the system's sound in another room by using the S-AIR receiver.

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press \leftarrow/\rightarrow to select  [Setup].**
- 3 Press \uparrow/\downarrow to select [System Settings], then press \oplus .**
- 4 Press \uparrow/\downarrow to select [S-AIR Settings], then press \oplus .**
The [S-AIR Settings] display appears.
- 5 Press \uparrow/\downarrow to select [Mode], then press \oplus .**
- 6 Press \uparrow/\downarrow to select the desired setting.**
 - [Party]: The S-AIR receiver outputs sound according to functions set on the unit.
 - [Separate]: You can set the desired function for the S-AIR receiver while unit functions do not change.
- 7 Press \oplus .**
The setting is made.
- 8 When you select [Separate] in Step 6, press S-AIR CH on the S-AIR receiver to select the function.**
The S-AIR receiver's function changes as follows.
"MAIN UNIT" \rightarrow "TUNER FM" \rightarrow
"AUDIO" \rightarrow ...


To enjoy the same function as the unit, select "MAIN UNIT."

- 9 Adjust the volume on the S-AIR receiver.**

Enjoying the S-AIR receiver while the unit is in standby mode

For the S-AIR receiver

You can enjoy the S-AIR receiver while the unit is in standby mode by setting [Standby] to [On].

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press \leftarrow/\rightarrow to select  [Setup].**
- 3 Press \uparrow/\downarrow to select [System Settings], then press \oplus .**
- 4 Press \uparrow/\downarrow to select [S-AIR Settings], then press \oplus .**
The [S-AIR Settings] display appears.
- 5 Press \uparrow/\downarrow to select [Standby], then press \oplus .**
- 6 Press \uparrow/\downarrow to select the desired setting.**
 - [On]: You can enjoy the S-AIR receiver while the unit is in standby mode or turned on. The power consumption during standby mode increases.
 - [Off]: You cannot enjoy the S-AIR receiver while the unit is in standby mode.
- 7 Press \oplus .**
The setting is made.

Note

- When you turn the system off while [Standby] is set to [On], "S-AIR" flashes (when wireless transmission between the unit and S-AIR receiver is not activated), or lights up (when wireless transmission between the unit and S-AIR receiver is activated) in the front panel display.

Identifying the unit with a specific S-AIR sub unit (Pairing operation)

For the surround amplifier

For the S-AIR receiver

When using S-AIR products, neighbors may also receive your system's sound if IDs are the same, or you may receive sound from neighbors. To prevent this, you can identify the unit with a specific S-AIR sub unit by performing the pairing operation.

When you perform pairing, wireless transmission is activated between the paired main unit and S-AIR sub unit only.


1 Place the S-AIR sub unit that you want to pair near the unit.

2 Match the IDs of the unit and the S-AIR sub unit.

- To set the ID of the unit, see "To set the ID of the unit" (page 46).
- To set the ID of the surround amplifier, see "To set the ID of the surround amplifier" (page 46).
- To set the ID of the S-AIR receiver, refer to the operating instructions of the S-AIR receiver.

3 Press HOME.

The home menu appears on the TV screen.

4 Press \leftarrow/\rightarrow to select  [Setup].

5 Press \uparrow/\downarrow to select [System Settings], then press \oplus .

6 Press \uparrow/\downarrow to select [S-AIR Settings], then press \oplus .

The [S-AIR Settings] display appears.

7 Press \uparrow/\downarrow to select [Pairing], then press \oplus .

8 Start pairing of the S-AIR sub unit.

■ For the surround amplifier

Press $\mathbb{I}/\text{⏻}$ on the surround amplifier to turn on the surround amplifier and press PAIRING on the rear panel of the surround amplifier. (To press PAIRING, a slim

instrument, such as a paper clip, can be used.)

■ For the S-AIR receiver

Refer to the operating instructions of the S-AIR receiver.

9 Press \leftarrow/\rightarrow to select [Start], then press \oplus .

The unit starts pairing.

The PAIRING indicator of the surround amplifier flashes when pairing starts.

When wireless transmission is activated, the PAIRING indicator of the surround amplifier turns on.

To cancel pairing, select [Cancel].

Note

- Perform pairing within several minutes of Step 9. If you do not, [Pairing failed. Retry?] appears on the TV screen. To continue pairing, select [OK] and press \oplus , then start again from Step 8. To cancel pairing, select [Cancel].

To cancel pairing

Change the ID of the main and sub unit (page 46).

Checking the S-AIR status of the unit

You can check the S-AIR status such as the S-AIR ID or pairing information.

1 Press HOME.

The home menu appears on the TV screen.

2 Press \leftarrow/\rightarrow to select  [Setup].

3 Press \uparrow/\downarrow to select [System Settings], then press \oplus .

4 Press \uparrow/\downarrow to select [S-AIR Settings], then press \oplus .

The [S-AIR Settings] display appears.

The S-AIR ID of the unit appears on the [Info] line. When the unit is paired, [Pairing] appears after the ID.

5 Press RETURN.

The system returns to the previous display.

If wireless transmission is unstable

For the surround amplifier For the S-AIR receiver

If you use multiple wireless systems, such as wireless LAN or Bluetooth, the transmission of S-AIR signals or other wireless signals may be unstable. In this case, the transmission may be improved by changing the following [RF Change] setting.

1 Press HOME.

The home menu appears on the TV screen.

2 Press \leftarrow/\rightarrow to select [Setup].

3 Press \uparrow/\downarrow to select [System Settings], then press \oplus .

4 Press \uparrow/\downarrow to select [S-AIR Settings], then press \oplus .

The [S-AIR Settings] display appears.

5 Press \uparrow/\downarrow to select [RF Change], then press \oplus .

6 Press \uparrow/\downarrow to select the desired setting, then press \oplus .

- [Auto]: Normally select this. The system changes [RF Change] to [On] or [Off] automatically.
- [On]: The system transmits sound by searching for the better channel for transmitting.
- [Off]: The system transmits sound by fixing the channel for transmitting.

7 Press \oplus .

The setting is made.

8 When you set [RF Change] to [Off], select the ID so that wireless transmission is most stable (page 46).

Note

- In most cases, you will not need to change this setting.
 - If [RF Change] is set to [Off], transmission between the unit and S-AIR sub unit can be performed using one of the following channels.
 - S-AIR ID A: equivalent channel for IEEE 802.11b/g channel 1
 - S-AIR ID B: equivalent channel for IEEE 802.11b/g channel 6
 - S-AIR ID C: equivalent channel for IEEE 802.11b/g channel 11

- The transmission may be improved by changing the transmission channel (frequency) of the other wireless system(s). For details, refer to the operating instructions of the other wireless system(s).

Using the Control for HDMI Function for “BRAVIA” Sync

This function is available on TVs with the “BRAVIA” Sync function.

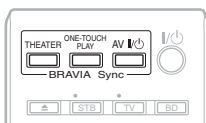
By connecting Sony components that are compatible with the Control for HDMI function with an HDMI cable, operation is simplified as below:

- System Power Off (page 51)
- One-Touch Play (page 51)
- Routing Control (page 51)
- Theater Mode (page 51)
- System Audio Control (page 51)
- Volume Limit (page 52)
- Audio Return Channel (page 52)
- Remote Easy Control (page 52)
- Language Follow (page 52)

Control for HDMI is a mutual control function standard used by CEC (Consumer Electronics Control) for HDMI (High-Definition Multimedia Interface).

The Control for HDMI function will not work when you connect this system to a component which is not compatible with the Control for HDMI function.

There are convenient buttons on the system’s remote for operating the TV, such as THEATER, ONE-TOUCH PLAY, and AV I/O. For details, see “Remote control” (page 14) and refer to the operating instructions of the TV.



Note

- Depending on the connected component, the Control for HDMI function may not work. Refer to the operating instructions supplied with the component.
- The Control for HDMI function may not work if you connect other than a Sony component, even if the component is compatible with the Control for HDMI function.

Preparing for the Control for HDMI function

(Control for HDMI - Easy Setting)

If your TV or other component is compatible with the Control for HDMI - Easy Setting function, you can set the system’s or other components’ [Control for HDMI] function automatically by setting the TV. For details, refer to the operating instructions of the TV or other components.

If the TV is not compatible with the Control for HDMI - Easy Setting function, set the Control for HDMI function of the system, TV, and other components manually.

Note

- For details on setting the TV, refer to the operating instructions of the TV.

- 1 Make sure that the system and the TV are connected with an HDMI cable.**
- 2 Turn on the TV and other components connected via the HDMI connection, and press I/O to turn on the system.**
- 3 Set the Control for HDMI function of the TV.**

The Control for HDMI functions for the system, TV, and other components are simultaneously set to on.

To set the [Control for HDMI] function of the system to on/off manually

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press </> to select [Setup].**

- 3** Press **↑/↓** to select [System Settings], then press **+**.
- 4** Press **↑/↓** to select [HDMI Settings], then press **+**.
The [HDMI Settings] display appears.
- 5** Press **↑/↓** to select [Control for HDMI], then press **+**.
- 6** Press **↑/↓** to select the setting, then press **+**.
 - [On]: On.
 - [Off]: Off.

Turning the system off in sync with the TV

(System Power Off)

When you turn the TV off by using the POWER button on the TV's remote or AV I/O on the system's remote, the system turns off automatically.

Note

- This function depends on the settings of your TV. For details, refer to the operating instructions of the TV.

Watching BD/DVD by a single button press

(One-Touch Play)

Press **ONE-TOUCH PLAY**.

The system and your TV turn on, your TV's input is set to the HDMI input to which the system is connected, and the system starts playing a disc automatically.

The System Audio Control function is also activated automatically.

Also, when you insert a disc, One-Touch Play is enabled. If One-Touch Play does not start (in the case of inserting a disc that is not compatible with the auto playback function), press **FUNCTION** repeatedly to select "BD/DVD" and press **▶** or **ONE-TOUCH PLAY**.

Enjoying a component that is connected to the system via an HDMI cable

(Routing Control)

When you perform One-Touch Play via the connected component, the system turns on and sets the system's function to "HDMI1" or "HDMI2" (depending on the HDMI jack in use), and your TV's input is set to the HDMI input to which the system is connected automatically.

Note

- Make sure that the component is connected to the HDMI (IN 1) or HDMI (IN 2) jack on the system via an HDMI cable, and the Control for HDMI function of the connected component is set to on.

Using the Theater Mode

(Theater Mode)

Press **THEATER**.

If your TV is compatible with the Theater Mode, you can enjoy optimal image and sound quality suited for movies, and the System Audio Control function is activated automatically.

Enjoying the sound of the content on the TV screen via the system's speakers

(System Audio Control)

You can simplify operation to enjoy sound of the TV or other components.

To use this function, connect the system and the TV with an audio cord and an HDMI cable, or the system and the other components with HDMI cables (pages 22, 24).

You can use the System Audio Control function as follows:

- When the system is turned on, the sound of the TV or other components can be output from the speakers of the system.
- When sound of the TV or other components is output from the speakers of the system, you

can change the output method to the speakers of the TV via the TV menu.

- When sound of the TV or other components is output from the speakers of the system, you can adjust the volume and turn off the sound of the system using the TV remote.

Note

- While the TV is in PAP (picture and picture) mode, the System Audio Control function will not work.
- Depending on the TV, when you adjust the unit's volume, the volume level appears on the TV screen. In this case, the volume level that appears on the TV screen and the unit's front panel display may differ.

Setting the Maximum Volume Level of the System

(Volume Limit)

When the System Audio Control function is activated, loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum level of the volume. For details, see [Volume Limit] (page 63).

Receiving the digital audio signal of the TV

(Audio Return Channel)

The system can receive the digital audio signal of the TV via an HDMI cable when your TV is compatible with the Audio Return Channel function. You can enjoy TV sound via the system by using just one HDMI cable. For details, see [Audio Return Channel] (page 63).

Operating the system via the TV remote

(Remote Easy Control)

You can control the basic functions of the system via the TV remote when the system's video output is displayed on the TV screen. For details, refer to the operating instructions of the TV.

Changing the language for the on-screen display of the TV

(Language Follow)

When you change the language for the on-screen display of the TV, the system's on-screen display language is also changed after turning the system off and on.


Calibrating the Appropriate Settings Automatically

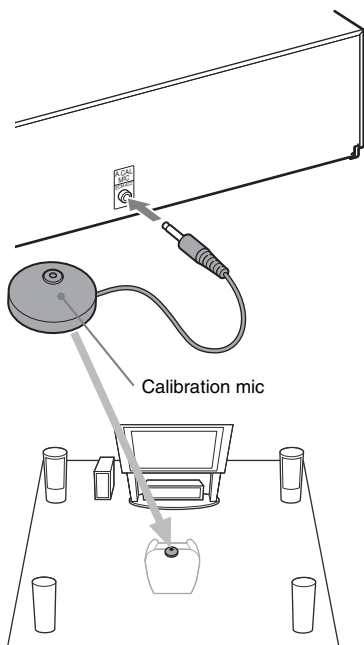
[Auto Calibration]

D. C. A. C. (Digital Cinema Auto Calibration) can set the appropriate surround sound automatically.

Note

- The system outputs a loud test sound when [Auto Calibration] starts. You cannot turn the volume down. Give consideration to children and neighbors.

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press </> to select  [Setup].**
- 3 Press ↑/↓ to select [Audio Settings], then press ⊕.**
- 4 Press ↑/↓ to select [Auto Calibration], then press ⊕.**
The confirmation display for [Auto Calibration] appears.
- 5 Connect the calibration mic to the A.CAL MIC jack on the rear panel.**
Set up the calibration mic at ear level using a tripod, etc. (not supplied). The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.



6 Press \uparrow/\downarrow to select [OK].

To cancel, select [Cancel].

7 Press \oplus .

[Auto Calibration] starts.

The system adjusts the speaker settings automatically.

For proper calibration results, please remain quiet during the measurement.

Note

- Before [Auto Calibration], make sure that the surround amplifier turns on and you install the surround amplifier in the appropriate location. If you install the surround amplifier in an improper location, such as another room, proper measurement will not be obtained.
- When you use the Wireless Surround Speaker Kit (WAHT-SBP2, optional) for the surround back speakers (page 17), install the speakers in appropriate location and turn the surround amplifier on. To use the surround back speakers, set [Surround Back] in [Speaker Settings] to [Yes] (page 54)

8 Confirm the result of [Auto Calibration].

The conclusions appear on the TV screen. Press \leftarrow/\rightarrow to change the page. The first page shows the distance of the speakers. The second page shows the level of the speakers.

Note

- If measurement fails, follow the message then retry [Auto Calibration].

9 Press \uparrow/\downarrow to select [OK] or [Cancel], then press \oplus .

■ The measurement is OK.

Disconnect the calibration mic, then select [OK]. The result is implemented.

■ The measurement is not OK.

Follow the message, then select [OK] to retry.

Note

- While the Auto Calibration function works:
 - do not turn off the power.
 - do not press any button.
 - do not change the volume.
 - do not change the function.
 - do not change the disc.
 - do not insert a disc.
 - do not disconnect the calibration mic.

Setting the Speakers

[Speaker Settings]

To obtain the best possible surround sound, set connection of the speakers and their distance from your listening position. Then use the test tone to adjust the level and the balance of the speakers to the same level.

1 Press HOME.

The home menu appears on the TV screen.

2 Press \leftarrow/\rightarrow to select [Setup].

3 Press \uparrow/\downarrow to select [Audio Settings], then press \oplus .

4 Press \uparrow/\downarrow to select [Speaker Settings], then press \oplus .

The [Speaker Settings] display appears.

5 Press \uparrow/\downarrow to select the item, then press



Check the following settings.

■ [Connection]

If you do not connect center or surround speakers, set the parameters for [Center] and [Surround]. Since the front speaker and subwoofer settings are fixed, you cannot change them.

When you use the Wireless Surround Speaker Kit (WAHT-SBP2, optional) for the surround back speakers (page 17), set [Surround Back] also.

[Front]

[Yes]

[Center]

[Yes]: Normally select this.

[None]: Select this if no center speaker is used.

[Surround]

[Yes]: Normally select this.

[None]: Select this if no surround speaker is used.

[Surround Back]

[Yes]: Select this if surround back speakers are used.

[None]: Select this if no surround back speakers is used.

[Subwoofer]

[Yes]

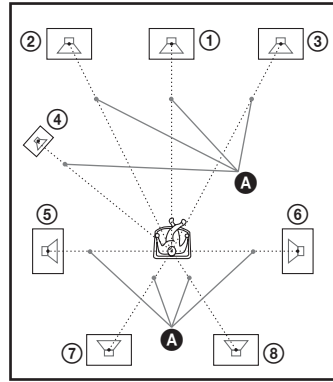
■ [Distance]

When you move the speakers, be sure to set the parameters of the distance (A) from the listening position to the speakers.

You can set the parameters from 0 to 23 feet (0.0 to 7.0 meters).

The numbers in the illustration indicate the following:

- ① Center speaker
- ② Front left speaker (L)
- ③ Front right speaker (R)
- ④ Subwoofer
- ⑤ Surround left speaker (L)
- ⑥ Surround right speaker (R)
- ⑦ Surround back left speaker (L) (optional)
- ⑧ Surround back right speaker (R) (optional)



[Front Left/Right] 10 ft/3.0 m: Set the front speaker distance.

[Center]* 10 ft/3.0 m: Set the center speaker distance.

[Surround Left/Right]* 10 ft/3.0 m: Set the surround speaker distance.

[Surround Back Left/Right]* 10 ft/3.0 m: Set the surround back speaker distance.

[Subwoofer] 10 ft/3.0 m: Set the subwoofer distance.

* This item appears when you set it to [Yes] in the [Connection] setting.

Note

- Depending on the input stream, [Distance] may not be effective.

Tip

- You can change measurement units (feet or meters) by pressing the color button (RED).

■ [Level]

You can adjust the sound level of the speakers. You can set the parameters from -6.0 dB to $+6.0$ dB. Be sure to set [Test Tone] to [On] for easy adjustment.

[Front Left/Right] 0.0 dB: Set the front speaker level.

[Center]* 0.0 dB: Set the center speaker level.

[Surround Left/Right]* 0.0 dB: Set the surround speaker level.

[Surround Back Left/Right]* 0.0 dB: Set the surround back speaker level.

[Subwoofer] 0.0 dB: Set the subwoofer level.

* This item appears when you set it to [Yes] in the [Connection] setting.

■ [Test Tone]

The speakers will emit a test tone to adjust [Level].

[Off]: The test tone is not emitted from the speakers.

[On]: The test tone is emitted from each speaker in sequence while adjusting level. When you select one of the [Speaker Settings] items, the test tone is emitted from each speaker in sequence.

Adjust the sound level as follows.

- 1** Set [Test Tone] to [On].
- 2** Press \uparrow/\downarrow to select [Level], then press \oplus .
- 3** Press \uparrow/\downarrow to select the desired speaker type, then press \oplus .
- 4** Press \leftarrow/\rightarrow to select the left or right speaker, then press \uparrow/\downarrow to adjust the level.
- 5** Press \oplus .
- 6** Repeat Steps 3 to 5.
- 7** Press RETURN.
The system returns to the previous display.
- 8** Press \uparrow/\downarrow to select [Test Tone], then press \oplus .
- 9** Press \uparrow/\downarrow to select [Off], then press \oplus .

Note

- The test tone signals are not output from the HDMI OUT jack.

Tip

- To adjust the volume of all the speakers at one time, press VOL +/-.

Using the Sleep Timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music. The time can be preset in intervals of 10 minutes.

Press SLEEP.

Each time you press SLEEP, the minutes display (the remaining time) changes by 10 minutes. When you set the sleep timer, "SLEEP" flashes in the front panel display.

To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly to select the desired time.

Deactivating the Buttons on the Unit

(Child Lock)

You can deactivate the buttons on the unit (except for $\mathbb{I}/\text{⏻}$) for preventing misoperation, such as child mischief (child lock function).

Press ■ on the unit for 5 seconds.

"CHILD LOCK" and "ON" appear in the front panel display.

The child lock function is activated and the buttons on the unit are locked. (You can operate the system by using the remote.)

To cancel, press ■ for 5 seconds so that "CHILD LOCK" and "OFF" appear in the front panel display.

Note

- When you operate the buttons on the unit while the child lock function is on, "CHILD LOCK" appears in the front panel display.

Controlling Your TV or Other Components with the Supplied Remote

You can control your TV and other components such as a cable box or digital satellite receiver with the supplied remote. The remote is initially set to control Sony components.

You can control non-Sony components by changing the preset code of the remote. For operation, see “Changing the preset code of the remote (Preset mode)” (page 57).

You can also set a new code which is not stored on the remote. For operation, see “Programming the remote code from another remote (Learning mode code)” (page 57).

Note

- When you replace the batteries of the remote, the remote setting may be reset to the default (SONY) setting.

Controlling your components with the supplied remote

- 1 Press the TV or STB operation mode button that matches the component you want to control.**
- 2 Press the appropriated buttons listed in the following table.**
 - ●: The button can be used with the default setting of the remote.
 - ○: The button can be used when you change the preset code of the remote.






| Button | Remote's mode | |
|----------------|---------------|-----|
| | TV | STB |
| AV I/O | ● | ● |
| Number buttons | ● | ● |
| . | ● | ● |
| ENTER | ● | ● |
| AUDIO | ● | ● |
| SUBTITLE (CC) | ● | ○ |
| TONE (WIDE) | ● | ○ |

| Button | Remote's mode | |
|---------------------------------------|---------------|-----|
| | TV | STB |
| SLEEP (INPUT) | ● | ● |
| Color buttons (YELLOW/BLUE/RED/GREEN) | ● | ○ |
| TOP MENU (GUIDE) | ● | ● |
| FAVORITES | ● | ● |
| POP UP/MENU (LIST) | ● | ● |
| ←/↑/↓/→, ⊕ | ● | ● |
| RETURN | ● | ● |
| HOME (MENU) | ● | ● |
| OPTIONS (TOOLS) | ● | ● |
| FUNCTION (PAGE -) | ● | ○ |
| SOUND MODE (PAGE +) | ● | ○ |
| ⏮/▶/⏭ | ● | ○ |
| ◀• | ● | ○ |
| •→ | ● | ● |
| ⏮/▶/⏭ | ● | ● |
| ▷ | ● | ● |
| | ● | ● |
| ■ | ● | ● |
| MUTING | ● | |
| VOL +/- | ● | |
| CH +/- | ● | ● |
| DISPLAY | ● | ● |
| SYSTEM MENU (JUMP) | ● | ● |
| ▷ while pressing ● (starts recording) | ● | ● |
| while pressing ● (pauses recording) | ● | ○ |
| ■ while pressing ● (stops recording) | ● | ○ |

Note

- In TV or STB mode, if you press any of the buttons above, the TV or STB operation mode button lights up. (However, depending on the code setting, some buttons may not work, and the TV or STB operation mode button may not light up.)
- If you press other than the buttons above when the remote is in TV or STB mode, the TV or STB operation mode button does not light up.
- Depending on the TV or component, you may not be able to use some of the buttons.

Changing the preset code of the remote (Preset mode)


- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press </> to select  [Setup].**
- 3 Press ↑/↓ to select [Remote Controller Setting Guide], then press .**
- 4 Press ↑/↓ to select [Preset Mode], then press .**
- 5 Press ↑/↓ to select the component type that you want to operate with the supplied remote, then press .**
- 6 Press ↑/↓ to select the device's manufacturer, then press .**
- 7 Press POP UP/MENU while pressing the operation mode button TV (for a TV) or STB (for a cable box, digital satellite receiver, digital video recorder, etc.).**
The remote enters Preset mode. The TV or STB operation mode button (whichever button you pressed) starts flashing.
- 8 When the TV or STB operation mode button starts flashing, enter the code on the TV screen using the number buttons, then press ENTER.**
If you successfully set the code, the TV or STB operation mode button will flash twice slowly. If the setting is unsuccessful, the TV or STB operation mode button will flash five times quickly.





Note

- You can quit Preset mode by pressing the TV or STB operation mode button (whichever button is flashing).

- If you do not operate the remote for more than 10 seconds during presetting mode, the remote exits from presetting mode.

Programming the remote code from another remote (Learning mode)

You can program a remote code that is not stored in the supplied remote from a different component's remote, such as a TV remote. Buttons other than THEATER, ONE-TOUCH PLAY, , BD, TV, and STB are assignable.

- 1 Press HOME.**
The home menu appears on the TV screen.
- 2 Press </> to select  [Setup].**
- 3 Press ↑/↓ to select [Remote Controller Setting Guide], then press .**
- 4 Press ↑/↓ to select [Learning Mode], then press .**
- 5 Press .**
- 6 Prepare the other remote with the button which you want to program to the supplied remote.**
- 7 Press TOP MENU while pressing the operation mode button TV (for a TV) or STB (for a cable box, digital satellite receiver, digital video recorder, etc.) for one second.**
The remote enters Learning mode. The BD operation mode button lights up and the TV or STB operation mode button (whichever button you pressed) starts flashing.
- 8 Press the button on the supplied remote to which you want to assign the new remote code.**

The TV or STB operation mode button lights up.

Note

- If the pressed button has already been assigned a remote code, the TV or STB operation mode button flashes five times quickly. In this case, clear the learned remote code of the button (page 58), then assign the new desired remote code.

- You cannot use ● individually. ● is used with ▷, ■, or ■. When learning, press ▷, ■, or ■ while pressing ●.

9 Point the remotes at each other.

10 Press the button on the other remote that you want to program to the supplied remote.

Note

- If you do not press a button for more than 10 seconds after Step 8, the supplied remote status returns to its status after Step 7. Re-perform from Step 8.

11 Repeat Steps 8 to 10 to continue programming more buttons.

If you successfully program the remote code, the BD operation mode button will flash twice slowly. If the setting is unsuccessful, the TV or STB operation mode button will flash five times quickly.

Note

- You can exit from Learning mode by pressing the TV or STB operation mode button (whichever button is flashing).
- If you do not press a button to be programmed during Learning mode for more than 1 minute, the remote exits from Learning mode.

To clear a programmed remote code

1 Follow Steps 1 to 7 of “Programming the remote code from another remote (Learning mode).”

2 Press I/⏻ for more than 1 second.

The TV or STB operation mode button flashes twice.

3 Press the button on the supplied remote for which you want to clear the remote code.

If you successfully clear the remote code, the BD operation mode button will flash twice slowly. If the clearing is unsuccessful, the BD operation mode button will flash five times quickly.

4 Repeat Step 3 to continue clearing more buttons.

Note

- When you clear the programmed remote code, the button’s operation returns to the default setting.

Clearing all the preset and programmed remote codes from the remote’s memory

1 Press and hold AV I/⏻ first, then press VOL –, then press CH –.

The BD, TV, and STB operation buttons light up.

2 Release all buttons.

The BD, TV, and STB operation mode buttons turn off and all the added remote codes are cleared. The remote returns to its default settings.


Saving Power in Standby Mode

Check that the following settings are made:

- [Control for HDMI] in [HDMI Settings] is set to [Off] (page 50).
- [Standby] in [S-AIR Settings] is set to [Off] (page 47).
- [Quick Start Mode] is set to [Off] (page 64).

Using the Setup Display

You can make various adjustments of items such as picture and sound.

Select  (Setup) on the home menu when you need to change the settings of the system.


The default settings are underlined.

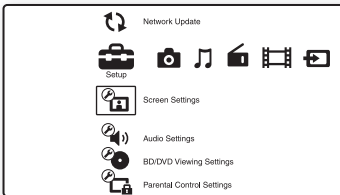
Note

- Playback settings stored in the disc take priority over the Setup Display settings and not all the functions described may work.

1 Press HOME.

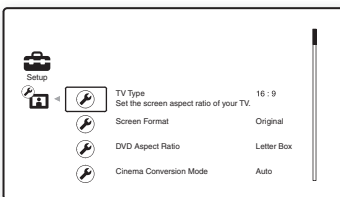
The home menu appears on the TV screen.

2 Press </> to select  [Setup].














3 Press ↑/↓ to select the setup category icon to change, then press +.

Example: [Screen Settings]



You can setup the following options.

| Icon | Explanation |
|---|---|
|  | [Remote Controller Setting Guide] (page 59) Makes the remote settings for operating the TV or other components. |
|  | [Network Update] (page 60) Updates the software of the system. |

| Icon | Explanation |
|---|--|
|  | [Screen Settings] (page 60) Makes the screen settings according to the type of connecting jacks. |
|  | [Audio Settings] (page 61) Makes the audio settings according to the type of connecting jacks. |
|  | [BD/DVD Viewing Settings] (page 62) Makes detailed settings for BD/DVD playback. |
|  | [Parental Control Settings] (page 62) Makes detailed settings for the Parental Control function. |
|  | [Music Settings] (page 63) Makes detailed settings for Super Audio CD playback. |
|  | [System Settings] (page 63) Makes the system-related settings. |
|  | [Network Settings] (page 64) Makes detailed settings for Internet and network. |
|  | [Easy Setup] (page 65) Re-runs the Easy Setup to make the basic settings. |
|  | [Resetting] (page 65) Resets the system to the factory settings. |

? [Remote Controller Setting Guide]

■ **[Preset Mode]**

You can change the preset code of the remote for controlling non-Sony components. For details, see “Changing the preset code of the remote (Preset mode)” (page 57).

■ **[Learning Mode]**

You can assign a remote code for an operation different from the preset operations of the remote’s buttons. For details, see “Programming the remote code from another remote (Learning mode)” (page 57).

[Network Update]

You can update and improve the functions of the system.

For information about update functions, refer to the following website:

<http://www.sony.com/blurayhtsupport>

During a software update, “UPDATING” appears in the front panel display and video signals via HDMI may not be displayed. After the update completes, the main unit automatically turns off. Please wait for the software update to complete; do not turn the main unit on or off, or operate the main unit or TV.

[Screen Settings]

■ [3D Output Setting]

[Auto]: Normally select this.

[Off]: Select this to display all contents in 2D.

Note

- 3D video from the HDMI (IN 1) or HDMI (IN 2) jack is output regardless of this setting.

■ [TV Screen Size Setting for 3D]

Sets the screen size of your 3D compatible TV.

Note

- This setting does not apply to 3D video from the HDMI (IN 1) or HDMI (IN 2) jack.

■ [TV Type]

[16:9]: Select this when connecting to a wide-screen TV or a TV with a wide-mode function.

[4:3]: Select this when connecting to a 4:3 screen TV without a wide-mode function.

■ [Screen Format]

[Original]: Select this when connecting to a TV with a wide-mode function. Displays a 4:3 screen picture in 16:9 aspect ratio even on a wide-screen TV.

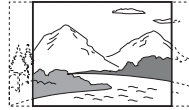
[Fixed Aspect Ratio]: Changes the picture size to fit the screen size with the original picture aspect ratio.

■ [DVD Aspect Ratio]

[Letter Box]: Displays a wide picture with black bands on the top and bottom.



[Pan & Scan]: Displays a full-height picture on the entire screen, with trimmed sides.



■ [Cinema Conversion Mode]

[Auto]: Normally select this. The unit automatically detects whether the material is video-based or film-based, and switches to the appropriate conversion method.

[Video]: The conversion method suited for video-based material will always be selected regardless of the material.

■ [Output Video Format]

[HDMI]: Normally select [Auto]. Select [Original Resolution] to output the resolution recorded on the disc. (When the resolution is lower than SD resolution, it is scaled up to SD resolution.)

[Component Video]: Select the resolution that suits your TV.

[Video]: Automatically sets the lowest resolution.

Note

- When connecting the HDMI OUT jack and other video output jacks at the same time, select [Component Video].
- If no picture appears when setting [HDMI] or [Component Video] resolution, try another resolution setting.

■ [BD/DVD-ROM 1080/24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

■ [YCbCr/RGB (HDMI)]

[Auto]: Automatically detects the type of external device, and switches to the matching color setting.

[YCbCr (4:2:2)]: Outputs YCbCr 4:2:2 video signals.

[YCbCr (4:4:4)]: Outputs YCbCr 4:4:4 video signals.

[RGB]: Select this when connecting to a device with an HDCP-compliant DVI jack.

■ [HDMI Deep Color Output]

[Auto]: Normally select this.

[12bit], [10bit]: Outputs 12bit/10bit video signals when the connected TV is compatible with Deep Color.

[Off]: Select this when the picture is unstable or colors appear unnatural.

■ [Pause Mode] (BD/DVD VIDEO/DVD-R/DVD-RW only)

[Auto]: The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.

[Frame]: The picture, including subjects that do not move dynamically, is output in high resolution.

 **[Audio Settings]**

■ [BD Audio MIX Setting]

[On]: Outputs the audio obtained by mixing the interactive audio and secondary audio to the primary audio.

[Off]: Outputs the primary audio only. Select this when outputting HD audio signals to an AV receiver.

■ [Audio DRC]

You can compress the dynamic range of the sound track.

[Auto]: Performs playback at the dynamic range specified by the disc (BD-ROM only).

[Off]: No compression of dynamic range.

[On]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.

■ [Attenuate - AUDIO]

Distortion may occur when you listen to a component connected to the AUDIO (AUDIO IN L/R) jacks. You can prevent distortion by reducing the input level on the unit.

[On]: Attenuates the input level. The output level is changed.

[Off]: Normal input level.

■ [Audio Output]

The system cannot output multi-channel sound from both the HDMI (OUT) jack and system's speakers simultaneously.

[Speaker]: Outputs multi-channel sound from the system's speakers only.

[Speaker + HDMI]: Outputs multi-channel sound from the system's speakers and 2-channel linear PCM signals from the HDMI (OUT) jack.

[HDMI]: Outputs multi-channel sound from the HDMI (OUT) jack only. Sound format depends on the connected component.

Note

- Even if [HDMI] or [Speaker + HDMI] is selected, the sound of functions other than "BD/DVD," "D. MEDIA," "HDMI1," or "HDMI2" is output from the system's speakers, not from the HDMI (OUT) jack.
 - When you set [Audio Output] to [HDMI], the SOUND MODE, "TONE," "NIGHT MODE," and "SUR.SETTING" functions are disabled.
 - When the System Audio Control function (page 51) is activated, this setting may change automatically.
-

■ [Sound Effect]

You can set the system's sound effects (SOUND MODE, "TONE," "NIGHT MODE," and "SUR.SETTING") to on/off.

[On]: Enables all of the system's sound effects. The upper limit of sampling frequency is set to 48 kHz.

[Off]: The sound effects are disabled. Select this when you do not want to set the upper limit of sampling frequency.

■ [Speaker Settings]

To obtain the best possible surround sound, set the speakers. For details, see “Setting the Speakers” (page 53).

■ [Auto Calibration]

You can calibrate the appropriate settings automatically. For details, see “Calibrating the Appropriate Settings Automatically” (page 52).

[BD/DVD Viewing Settings]

You can make detailed settings for BD/DVD playback.

■ [BD/DVD Menu]

You can select the default menu language for BD-ROMs or DVD VIDEOS.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language Code List” (page 81).

■ [Audio]

You can select the default track language for BD-ROMs or DVD VIDEOS.

When you select [Original], the language given priority in the disc is selected.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language Code List” (page 81).

■ [Subtitle]

You can select the default subtitle language for BD-ROMs or DVD VIDEOS.

When you select [Select Language Code], the display for entering the language code appears. Enter the code for your language by referring to “Language Code List” (page 81).

■ [BD Hybrid Disc Playback Layer]

[BD]: Plays BD layer.

[DVD/CD]: Plays DVD or CD layer.


■ [BD Internet Connection]


[Allow]: Normally select this.

[Do not allow]: Prohibits Internet connection.

■ [BD Data Jack Selection]

[Internal memory]: Selects the internal memory to store BD data.

[USB device (front)]: Selects the  (USB) port on the front panel to store BD data.

[USB device (rear)]: Selects the  (USB) port on the rear panel to store BD data.

[Parental Control Settings]

■ [Password]

Set or change the password for the Parental Control function. A password allows you to set a restriction on BD-ROM, DVD VIDEO, or Internet video playback. If necessary, you can differentiate the restriction levels for BD-ROMs, DVD VIDEOS, and Internet videos.

■ [Parental Control Area Code]

Playback of some BD-ROMs or DVD VIDEOS can be limited according to the geographic area. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [BD Parental Control]

Playback of some BD-ROMs can be limited according to the age of the users. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [DVD Parental Control]

Playback of some DVD VIDEOS can be limited according to a predetermined level such as the age of the users. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [Internet Video Parental Control]

Playback of some Internet videos can be limited according to the age of the users. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [Internet Video Unrated]

[Allow]: Allows the playback of unrated Internet videos.
[Block]: Blocks the playback of unrated Internet videos.

**[Music Settings]**

You can make detailed settings for Super Audio CD playback.

■ [Super Audio CD Playback Layer]

[Super Audio CD]: Plays the Super Audio CD layer.
[CD]: Plays the CD layer.

■ [Super Audio CD Playback Channel]

[DSD 2ch]: Plays the 2ch area.
[DSD Multi]: Plays the multi-channel area.

**[System Settings]**

You can make the system-related settings.

■ [OSD]

You can select your language for the system on-screen displays.

■ [S-AIR Settings]

You can set up the S-AIR settings. For details, see “Using an S-AIR Product” (page 46).

[Info]: The selected S-AIR ID is displayed.
[Pairing]: You can pair the system and S-AIR sub unit, such as a surround amplifier or S-AIR receiver.
[RF Change]: If wireless transmission is unstable, set this function.

[Mode]: You can enjoy the system’s sound in another room.

[Standby]: You can enjoy the S-AIR receiver while the unit is in standby mode.

■ [Dimmer]

[Bright]: Bright lighting.
[Dark]: Low lighting.

■ [HDMI Settings]

By connecting Sony components that are compatible with the Control for HDMI function with an HDMI cable, operation is simplified. For details, see “Using the Control for HDMI Function for “BRAVIA” Sync” (page 50).

[Control for HDMI]

You can set the [Control for HDMI] function to on/off.

[On]: On. You can operate mutually between components that are connected with an HDMI cable.
[Off]: Off.

[Audio Return Channel]

This function is available when you connect the system and TV that is compatible with the Audio Return Channel function.

[Auto]: The system can receive the digital audio signal of the TV automatically via an HDMI cable.

[Off]: Off.

Note

- This function is available only when [Control for HDMI] is set to [On].

[Volume Limit]

When the System Audio Control (page 51) is activated, loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum level of the volume when the System Audio Control function activates.

[Level3]: Maximum volume level is set to 15.

[Level2]: Maximum volume level is set to 20.

[Level1]: Maximum volume level is set to 30.

[Off]: Off.

Note

- This function is available only when [Control for HDMI] is set to [On].

■ [Quick Start Mode]

[On]: Shortens the startup time from standby mode. You can operate the system quickly after turning it on.

[Off]: The default setting.

■ [Auto Standby]

[On]: Turns on the [Auto Standby] function. When you do not operate the system for about 30 minutes, the system enters standby mode automatically.

[Off]: Turns off the function.

Note

- This function does not work while the sleep timer is set.
-

■ [Auto Display]

[On]: Automatically displays information on the screen when changing the viewing titles, picture modes, audio signals, etc.

[Off]: Displays information only when you press DISPLAY.

■ [Screen Saver]

[On]: Turns on the screen saver function.

[Off]: Off.

■ [Software Update Notification]

[On]: Sets the system to inform you of newer software version information (page 59).

[Off]: Off.

■ [Gracenote Settings]

[Auto]: Automatically downloads disc information when you stop playback of the disc. To download, the system must be connected to the network.

[Manual]: Downloads disc information when you select [Playback History List] or [Information Display] in the options menu.

■ [DivX® VOD]

(Except for U.S. models)

You can display the registration or deregistration code for this system, or deregister this system after registration.

When the registration is disabled

[Registration Code]: The registration code is displayed.

[Deregistration Code]: The deregistration code is displayed. (This item can be selected only after the registration code is displayed.)

When the registration is enabled

Press ←/→ to select [OK] or [Cancel], then press ⊕.

[OK]: The device is deregistered and the deregistration code is displayed.

[Cancel]: The system returns to the previous display.

For more information, go to <http://www.divx.com> on the Internet.

■ [System Information]

You can display the system's software version information and the MAC address.



[Network Settings]

You can make detailed settings for Internet and network.

■ [Internet Settings]

Connect the system to the network beforehand. For details, see “Step 3: Connecting to the Network” (page 28).

[View Network Status]: Displays the current network status.

[Wired Setup]: Select this when you connect to a broadband router directly.

[USB Wireless Setup]: Select this when you use a USB Wireless LAN Adapter.

For more information, go to <http://www.sony.com/blurayhtsupport>

■ [Network Connection Diagnostics]

You can run the network diagnostics to check if the network connection has been made properly.

■ [Connection Server Settings]

Sets whether or not to display the connected DLNA server.

■ [BD Remote Device Registration]

Registers your “BD remote” device.

■ [Registered BD Remote Devices]

Displays a list of your registered “BD remote” devices.

[Easy Setup]

Re-runs the Easy Setup to make the basic settings. Follow the on-screen instructions.

[Resetting]

■ [Reset to Factory Default Settings]

You can reset the system settings to the factory default by selecting the group of settings. All the settings within the group will be reset.

■ [Initialize Personal Information]

You can erase your personal information stored in the system.

Precautions

On safety

- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the system, or place the system near water, such as near a bathtub or shower room. Should any solid object or liquid fall into the cabinet, unplug the system and have it checked by qualified personnel before operating it any further.
- Do not touch the AC power cord (mains lead) with wet hands. Doing so may cause an electric shock.

On power sources

- Unplug the unit from the wall outlet (mains) if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up in the system.
- At high volume, over long periods of time, the cabinet becomes hot to the touch. This is not a malfunction. However, touching the cabinet should be avoided. Do not place the system in a confined space where ventilation is poor as this may cause overheating.
- Do not block the ventilation slots by putting anything on the system. The system is equipped with a high power amplifier. If the ventilation slots are blocked, the system can overheat and malfunction.
- Do not place the system on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the system in a confined space, such as a bookshelf or similar unit.
- Do not install the system near heat sources such as radiators, air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Do not install the system in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the system and discs away from components with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the system.
- Do not place metal objects in front of the front panel. They may limit reception of radio waves (BDV-HZ970W only).

- Do not place the system in a place where medical equipment is in use. It may cause a malfunction of medical equipment (BDV-HZ970W only).
- If you use a pacemaker or other medical device, consult your physician or the manufacturer of your medical device before using the wireless LAN function (BDV-HZ970W only).

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the unit. Should this occur, the system may not operate properly. In this case, remove the disc and leave the system turned on for about half an hour until the moisture evaporates.
- When you move the system, take out any disc. If you do not, the disc may be damaged.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

On adjusting volume

- Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is suddenly played.

On cleaning

- Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.
If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

On cleaning discs, disc/lens cleaners

- **Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.**

On replacement of parts

- In the events that this system is repaired, repaired parts may be collected for reuse or recycling purposes.

On your TV's color

- If the speakers should cause the TV screen to have color irregularity, turn off the TV then turn it on after 15 to 30 minutes. If color irregularity should persist, place the speakers further away from the TV set.

IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

On moving the system

- Before moving the system, make sure that there is no disc inserted, and remove the AC power cord (mains lead) from the wall outlet (mains).

About S-AIR function

- As the S-AIR products transmit sound by radio waves, sound may skip when radio waves are obstructed. This is a characteristic of radio waves and is not malfunction.
- As the S-AIR products transmit sound by radio waves, equipment that generates electromagnetic energy, such as a microwave oven, may prevent wireless transmission.
- As the S-AIR products use the radio waves that share the same frequency as other wireless systems, such as wireless LAN or Bluetooth devices, interference or poor transmission may occur. In this case, take the following steps to enhance the transmission of signals:
 - Avoid placing the S-AIR products near other wireless systems.
 - Avoid using the S-AIR products and the other wireless systems simultaneously.
 - The transmission may be improved by changing the transmission channel (frequency) of the other wireless system(s). For details, refer to the operating instructions of the other wireless system(s).
- The transmission distance differs depending on the usage environment. Find locations where transmission between the S-AIR main unit and sub unit is most effective, and install the S-AIR main unit and sub unit there.
- Place the S-AIR products on a stable surface.
- Poor transmission may occur and the transmission distance may be too short if the following conditions exist:
 - There is a wall/floor made of reinforced concrete or stone between the S-AIR products.
 - There is an iron divider/door or furniture/electric product made of fireproof glass, metal, etc., between the S-AIR products.

Notes about the Discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.

This system can only play a standard circular disc. Using neither standard nor circular discs (e.g., card, heart, or star shape) may cause a malfunction.

Do not use a disc that has a commercially available accessory attached, such as a label or ring.

Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.

Note that if service personnel changes some parts during repair, these parts may be retained.

In the event of a problem with the S-AIR function, have a Sony dealer check the entire system together (S-AIR main unit and sub unit).

Power

| Symptom | Problems and solutions |
|---|--|
| The power is not turned on. | <ul style="list-style-type: none">• Check that the AC power cord (mains lead) is connected securely. |
| “PROTECTOR” and “PUSH POWER” appear alternately in the front panel display. | <p>Press I/⏻ to turn off the system, and check the following items after “STANDBY” disappears.</p> <ul style="list-style-type: none">• Are the + and – speaker cords short-circuited?• Are you using only the specified speakers?• Is anything blocking the ventilation holes of the system?• After checking the above items and fixing any problems, turn on the system. If the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer. |

General

| Symptom | Problems and solutions |
|------------------------------------|---|
| The remote does not function. | <ul style="list-style-type: none">• The distance between the remote and the unit is too far.• The batteries in the remote are weak.• When you cannot perform menu operations via the front panel display, press HOME on the remote. |
| The system does not work normally. | <ul style="list-style-type: none">• Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes. |

Picture

| Symptom | Problems and solutions |
|--|--|
| There is no picture. | <ul style="list-style-type: none">• Check the video connection (page 22).• The unit is not connected to the correct TV input jack (page 22).• The video input on the TV is not set so that you can view pictures from the system.• Check the output method on your system (page 22).• The unit is connected to an input device that is not HDCP (High-bandwidth Digital Content Protection) compliant (“HDMI” on the front panel does not light up) (page 22).• When playing a double-layer DVD, the video and audio may be momentarily interrupted at the point where the layers switch. |
| 3D images from the HDMI (IN 1) or HDMI (IN 2) jack do not appear on the TV screen. | <ul style="list-style-type: none">• Depending on the TV or video component, 3D images may not appear. |

| Symptom | Problems and solutions |
|---|--|
| No picture appears when the video output resolution selected in [Output Video Format] is incorrect. | <ul style="list-style-type: none"> • Press and hold ▶ and VOLUME – on the unit for more than 5 seconds to reset the video output resolution to the lowest resolution. |
| Video signals are only output from the HDMI (OUT) jack when connecting the HDMI (OUT) jack and other video output jacks at the same time. | <ul style="list-style-type: none"> • Set [Output Video Format] in [Screen Settings] to [Component Video] (page 60). |
| The dark area of the picture is too dark/the bright area is too bright or unnatural. | <ul style="list-style-type: none"> • Set [Picture Quality Mode] to [Standard] (default) (page 38). |
| The picture is not output correctly. | <ul style="list-style-type: none"> • Check the [Output Video Format] settings in [Screen Settings] (page 60). • If the analog and digital signals are output at the same time, set [BD/DVD-ROM 1080/24p Output] in [Screen Settings] to [Off] (page 60). • For BD-ROMs, check the [BD/DVD-ROM 1080/24p Output] settings in [Screen Settings] (page 60). |
| Picture noise appears. | <ul style="list-style-type: none"> • The disc is dirty or flawed. • If the picture output from your system goes through your VCR to get to your TV, the copy-protection signal applied to some BD/DVD programs could affect picture quality. If you still experience problems even when you connect your unit directly to your TV, try connecting your unit to the other input jacks. |
| Even though you set the aspect ratio in [TV Type] of [Screen Settings], the picture does not fill the TV screen. | <ul style="list-style-type: none"> • The aspect ratio on the disc is fixed. |
| Color irregularity occurs on the TV screen. | <ul style="list-style-type: none"> • If the speakers are used with a CRT-based TV or projector, install the speakers at least 1.0 ft (0.3 meters) from the TV set. • If the color irregularity persists, turn off the TV set once, then turn it on after 15 to 30 minutes. • Make sure that no magnetic object (magnetic latch on a TV stand, health care device, toy, etc.) is placed near the speakers. |

Sound

| Symptom | Problems and solutions |
|---|--|
| There is no sound. | <ul style="list-style-type: none"> • The speaker cord is not connected securely. • Check the speaker settings (page 53). • Fast forward or fast reverse is performed. Press ▶ to return to normal play mode. • Slow forward or freeze frame is performed. Press ▶ to return to normal play mode. • Set [Audio Output] to [Speaker] (page 61). |
| No sound is output from the HDMI OUT jack. | <ul style="list-style-type: none"> • Set [Audio Output] to [HDMI] (page 61). |
| The Super Audio CD sound of a component that is connected to the HDMI (IN 1) or HDMI (IN 2) jack is not output. | <ul style="list-style-type: none"> • HDMI (IN 1) and HDMI (IN 2) does not accept an audio format that contains copy protection. Connect the analog audio output of the component to the AUDIO (AUDIO IN L/R) jacks of the unit. |
| The left and right sounds are unbalanced or reversed. | <ul style="list-style-type: none"> • Check that the speakers and components are connected correctly and securely. |

| Symptom | Problems and solutions |
|---|---|
| There is no sound from the subwoofer. | <ul style="list-style-type: none"> • Check the speaker connections and settings (pages 21, 53). |
| There is no digital sound from the HDMI (OUT) jack when using the Audio Return Channel function. | <ul style="list-style-type: none"> • Set [Control for HDMI] in [HDMI Settings] of [System Settings] to [On] (page 63). Also, set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Auto] (page 63). • Make sure that your TV is compatible with the Audio Return Channel function. • Make sure that an HDMI cable is connected to a jack on your TV that is compatible with the Audio Return Channel function. • The sampling frequency of the input stream is more than 48 kHz. |
| The system does not output sound correctly when connected to a set-top box. | <ul style="list-style-type: none"> • Set [Audio Return Channel] in [HDMI Settings] of [System Settings] to [Off] (page 52). |
| Severe hum or noise is heard. | <ul style="list-style-type: none"> • Check that the connecting cords are away from a transformer or motor, and at least 10 feet (3 meters) away from your TV set or a fluorescent light. • Move your TV away from the audio components. • Clean the disc. |
| The sound loses stereo effect when you play a CD. | <ul style="list-style-type: none"> • Select stereo sound by pressing AUDIO (page 41). |
| The surround effect is difficult to hear when you are playing a sound track of Dolby Digital, DTS, or MPEG audio. | <ul style="list-style-type: none"> • Check the surround setting (page 33). • Check the speaker connections and settings (pages 21, 53). • Depending on the BD/DVD, the output signal may not be the entire 5.1 channel. It may be monaural or stereo even if the sound track is recorded in Dolby Digital or MPEG audio format. |
| The sound comes from the center speaker only. | <ul style="list-style-type: none"> • Depending on the disc, the sound may come from the center speaker only. |
| No sound is heard from the center speaker. | <ul style="list-style-type: none"> • Check the speaker connections and settings (pages 21, 53). • Check the surround setting (page 33). • Depending on the source, the effect of the center speaker may be less noticeable. • A 2 channel source is being played. |
| No sound or only a very low-level sound is heard from the surround speakers. | <ul style="list-style-type: none"> • Check the speaker connections and settings (pages 21, 53). • Check the surround setting (page 33). • Depending on the source, the effect of the surround speakers may be less noticeable. • Check the wireless setting (page 29). • A 2 channel source is being played. |
| The beginning of the sound is cut off. | <ul style="list-style-type: none"> • Set the sound mode to "MOVIE" or "MUSIC" (page 41). • Select "A.F.D. STD" for "SUR.SETTING" (page 33). |
| The sound effects are disabled. | <ul style="list-style-type: none"> • The effects of SOUND MODE, "TONE," "NIGHT MODE," and "SUR.SETTING" may be disabled depending on the input stream (page 61). |
| Distortion occurs in the sound of a connected component. | <ul style="list-style-type: none"> • Reduce the input level for the connected component by setting [Attenuate - AUDIO] (page 61). |

| Symptom | Problems and solutions |
|---|--|
| There is no sound from the surround speakers or surround back speakers. | <p>Check the status of the S-AIR/STANDBY indicator on the surround amplifier.</p> <ul style="list-style-type: none"> • Turns off. <ul style="list-style-type: none"> – Check that the AC power cord (mains lead) of the surround amplifier is connected securely. – Turn the surround amplifier on by pressing I/⏻ on the surround amplifier. • Flashes orange. <ul style="list-style-type: none"> – Check that the wireless transceiver is inserted into the surround amplifier correctly (page 27). • Flashes green quickly. <ul style="list-style-type: none"> – Set the SURROUND SELECTOR switch of the surround amplifier to SURROUND (page 29). – If there is no sound from the surround back speakers, set [Surround Back] in [Speaker Settings] to [Yes] (page 54). • Flashes red. <ul style="list-style-type: none"> – Press I/⏻ to turn off the surround amplifier, and check the following items. <ol style="list-style-type: none"> ① Are the + and – speaker cords short-circuited? ② Is anything blocking the ventilation holes of the surround amplifier? After checking the above items and fixing any problems, turn on the surround amplifier. If the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer. • Flashes green slowly or turns red. <ul style="list-style-type: none"> – Confirm the S-AIR IDs of the unit and S-AIR sub unit (page 46). – Confirm the pairing setting (page 48). – See “If wireless transmission is unstable” (page 49). – Sound transmission is poor. Move the surround amplifier so that the S-AIR/STANDBY indicator turns green. – Move the system away from other wireless devices. – Avoid using any other wireless devices. • Turns green. <ul style="list-style-type: none"> – The speaker cord is not connected securely. – Check the speaker connections and settings. – Depending on the source or the settings of the S-AIR main unit, the effect of the speakers may be less noticeable. |


Operation

| Symptom | Problems and solutions |
|------------------------------------|--|
| Radio stations cannot be tuned in. | <ul style="list-style-type: none"> • Check that the antenna (aerial) is connected securely. Adjust the antenna (aerial) or connect an external antenna (aerial) if necessary. • The signal strength of the stations is too weak (when tuning in with automatic tuning). Use direct tuning. |
| The disc does not play. | <ul style="list-style-type: none"> • You are attempting to play a disc with a format that cannot be played back by this system (page 75). • The region code on the BD/DVD does not match the system. • Moisture has condensed inside the unit and may cause damage to the lenses. Remove the disc and leave the unit turned on for about half an hour. • The system cannot play a recorded disc that is not correctly finalized (page 75). |

| Symptom | Problems and solutions |
|--|---|
| File names are not displayed correctly. | <ul style="list-style-type: none"> • The system can only display ISO 8859-1-compliant character formats. Other character formats may be displayed differently. • Depending on the writing software used, the input characters may be displayed differently. |
| A disc does not start playing from the beginning. | <ul style="list-style-type: none"> • Resume play has been selected. Press OPTIONS and select [Play from beginning], then press ⊖. • The title or BD/DVD menu automatically appears on the TV screen. |
| Playback does not start from the resume point where you last stopped playing. | <ul style="list-style-type: none"> • The resume point may be cleared from memory depending on the disc when <ul style="list-style-type: none"> – you open the disc tray. – you disconnect the USB device. – you play other content. – you turn off the unit. |
| The system starts playing the disc automatically. | <ul style="list-style-type: none"> • The BD/DVD features an auto playback function. |
| Playback stops automatically. | <ul style="list-style-type: none"> • Some discs may contain an auto pause signal. While playing such a disc, the system stops playback at the auto pause signal. |
| You cannot perform some functions such as stop or search. | <ul style="list-style-type: none"> • Depending on the disc, you may not be able to perform some of the operations. Refer to the operating instructions supplied with the disc. |
| Messages do not appear on the TV screen in the language you want. | <ul style="list-style-type: none"> • In the Setup Display, select the desired language for the on-screen display in [OSD] in [System Settings] (page 63). |
| The language for the soundtrack/subtitle or angles cannot be changed. | <ul style="list-style-type: none"> • Try using the BD's or DVD's menu. • Multi-lingual tracks/subtitles or multi-angles are not recorded on the BD or DVD being played. • The BD or DVD prohibits the changing of the language for the sound track/subtitle or angles. |
| The disc tray does not open and you cannot remove the disc even after you press ▲ . | <ul style="list-style-type: none"> • Try the following: ① Press and hold ▶ and ▲ on the unit for more than 5 seconds to open the disc tray. ② Remove the disc. ③ Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes. |
| A disc cannot be ejected and "LOCKED" appears in the front panel display. | <ul style="list-style-type: none"> • Contact your Sony dealer or local authorized Sony service facility. |
| The Control for HDMI function does not work. | <ul style="list-style-type: none"> • Set [Control for HDMI] in [HDMI Settings] of [System Settings] to [On] (page 63). • Make sure that the connected component is compatible with the [Control for HDMI] function. • Check the connected component's setting for the Control for HDMI function. Refer to the operating instructions supplied with the component. • If you change the HDMI connection, connect and disconnect the AC power cord (mains lead), or have a power failure, set [Control for HDMI] in [HDMI Settings] of [System Settings] to [Off], then set [Control for HDMI] to [On] (page 63). • For details, see "Using the Control for HDMI Function for "BRAVIA" Sync" (page 50). |
| No sound is output from the system and TV while using the System Audio Control function. | <ul style="list-style-type: none"> • Make sure that the connected TV is compatible with the System Audio Control function. • For details, see "Using the Control for HDMI Function for "BRAVIA" Sync" (page 50). |

| Symptom | Problems and solutions |
|---|---|
| Bonus contents or other data that are contained in a BD-ROM cannot be played. | <ul style="list-style-type: none"> • Try the following: ① Remove the disc. ② Turn the system off. ③ Remove and reconnect the USB device (page 36). ④ Turn the system on. ⑤ Insert the BD-ROM with BONUSVIEW/BD-LIVE. |
| The unit does not work and “CHILD LOCK” appears in the front panel display when you press any button on the unit. | <ul style="list-style-type: none"> • Set the child lock function to off (page 55). |
| The system menu does not work. | <ul style="list-style-type: none"> • Press HOME on the remote. |

USB device

| Symptom | Problems and solutions |
|-----------------------------------|--|
| The USB device is not recognized. | <ul style="list-style-type: none"> • Try the following: ① Turn the system off. ② Remove and reconnect the USB device. ③ Turn the system on. • Make sure that the USB device is securely connected to the  (USB) port. • Check if the USB device or a cable is damaged. • Check if the USB device is on. • If the USB device is connected via a USB hub, disconnect it and connect the USB device directly to the unit. |

S-AIR

| Symptom | Problems and solutions |
|--|--|
| Wireless transmission is not activated. (The indicator of the S-AIR sub unit flashes green slowly or turns red.) | <ul style="list-style-type: none"> • Check that the wireless transceiver is inserted correctly into the unit and S-AIR sub unit (page 27). • Confirm the S-AIR IDs of the unit and S-AIR sub unit (page 46). • Confirm the pairing setting (page 48). • See “If wireless transmission is unstable” (page 49). • Sound transmission is poor. Move the S-AIR sub unit so that the indicator turns green. • Move the system away from other wireless devices. • Avoid using any other wireless devices. |
| There is no sound from the S-AIR sub unit, noise is heard from the S-AIR sub unit, or sound from the S-AIR sub unit skips. | <ul style="list-style-type: none"> • If you use another S-AIR main unit, place it more than 25 feet (8 meters) away from the unit. • Place the S-AIR main unit and S-AIR sub unit closer together. • Avoid use of equipment that generates electromagnetic energy, such as a microwave oven. • Place the S-AIR main unit and S-AIR sub unit away from other wireless products. • See “If wireless transmission is unstable” (page 49). • Change the S-AIR ID settings of the S-AIR main unit and S-AIR sub unit. • Turn off the system and S-AIR sub unit, then turn them on. |

BRAVIA Internet Video

| Symptom | Problems and solutions |
|---|---|
| The picture/sound is poor/certain programs display with a loss of detail, especially during fast-motion or dark scenes. | <ul style="list-style-type: none"> • Picture/sound quality may be poor depending on Internet content providers. • Picture/sound quality may be improved by changing the connection speed. Sony recommends a connection speed of at least 2.5 Mbps for standard-definition video and 10 Mbps for high-definition video. • Not all videos contain sound. |

| Symptom | Problems and solutions |
|-----------------------|--|
| The picture is small. | <ul style="list-style-type: none"> • Press ↑ to zoom in. |

Network connection

| Symptom | Problems and solutions |
|--|--|
| The system cannot connect to the network. | <ul style="list-style-type: none"> • Check the network connection (page 28) and the network settings (page 64). |
| You cannot connect your PC to the Internet after [Wi-Fi Protected Setup (WPS)] is performed. | <ul style="list-style-type: none"> • The wireless settings of the router may change automatically if you use the Wi-Fi Protected Setup function before adjusting the settings of the router. In this case, change the wireless settings of your PC accordingly. |
| You cannot connect the system to your wireless LAN router. | <ul style="list-style-type: none"> • Check if the wireless LAN router is on. • Depending on the usage environment, including the wall material, radio wave reception conditions, or obstacles between the system and the wireless LAN router, the possible communication distance may be shortened. Move the system and the wireless LAN router closer to each other. • Devices that use a 2.4 GHz frequency band, such as a microwave, Bluetooth, or digital cordless device, may interrupt the communication. Move the unit away from such devices, or turn off such devices. |
| The desired wireless router is not detected even if [Scan] is performed. | <ul style="list-style-type: none"> • Press RETURN to return to the previous screen, and try [Scan] again. If the desired wireless router is still not detected, press RETURN to select [Manual registration]. |
| The message [A new software version has been found on the network. Perform update under "Network Update."] appears on the screen when turning the system on. | <ul style="list-style-type: none"> • See [Network Update] (page 59) to update the system to a newer software version. |

USB Wireless LAN Adapter (BDV-HZ970W only)

| Symptom | Problems and solutions |
|---|--|
| The system cannot connect to the network or the network connection is unstable. | <ul style="list-style-type: none"> • The distance between the unit and the wireless LAN router is too far (page 28). • Change the USB Wireless LAN Adapter position. • Set [RF Change] in [S-AIR Settings] of [System Settings] to [Off], and change the S-AIR ID of the unit and S-AIR sub unit (page 49). |

Other

| Symptom | Problems and solutions |
|---|---|
| "Exxxx" appears in the front panel display. | <ul style="list-style-type: none"> • Contact your nearest Sony dealer or local authorized Sony service facility and give the error code. |

Playable Discs

| | |
|----------------------------------|--|
| Blu-ray Disc¹⁾ | BD-ROM BD-R ²⁾ /BD-RE ²⁾ |
| DVD³⁾ | DVD-ROM DVD-R/DVD-RW DVD+R/DVD+RW |
| CD³⁾ | CD-DA (Music CD) CD-ROM CD-R/CD-RW Super Audio CD |

¹⁾Since the Blu-ray Disc specifications are new and evolving, some discs may not be playable depending on the disc type and the version. Also, the audio output differs depending on the source, connected output jack, and selected audio settings.

²⁾BD-RE: Ver.2.1
BD-R: Ver.1.1, 1.2, 1.3 including organic pigment type BD-R (LTH type)
BD-Rs recorded on a PC cannot be played if postscripts are recordable.

³⁾A CD or DVD disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions supplied with the recording device.

Discs that cannot be played

- BDs with cartridge
- DVD-RAMs
- HD DVDs
- DVD Audio discs
- PHOTO CDs
- Data part of CD-Extras
- VCDs/Super VCDs
- Audio material side on DualDiscs
- A disc recorded in a color system other than NTSC, such as PAL (this system conforms to the NTSC color system).

Notes on discs

This product is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard. Therefore, these discs may not be compatible with this product.


Note on playback operations of a BD/DVD

Some playback operations of a BD/DVD may be intentionally set by software producers. Since this system plays a BD/DVD according to the disc contents the software producers designed, some playback features may not be available.

Note about double-layer BDs/DVDs

The playback picture and sound may be momentarily interrupted when the layers switch.

Region code (BD-ROM/DVD VIDEO only)

Your system has a region code printed on the rear of the unit and will only play a BD-ROM/DVD VIDEO (playback only) labeled with identical region codes or .

Playable Types of Files

Video

| File format | Extensions |
|--|--|
| MPEG-1 Video/PS ¹⁾⁵⁾ | “.mpg,” “.mpeg,” “.m2ts,” |
| MPEG-2 Video/PS, TS ¹⁾⁶⁾ | “.mts” |
| DivX ²⁾ | “.avi,” “.divx” |
| MPEG4/AVC ¹⁾⁵⁾ | “.mkv,” “.mp4,” “.m4v,” “.m2ts,” “.mts” |
| WMV9 ¹⁾⁵⁾ | “.wmv,” “.asf” |
| AVCHD ⁵⁾ | ³⁾ |

Music

| File format | Extensions |
|---------------------------------|------------|
| MP3 (MPEG-1 Audio Layer III) | “.mp3” |
| AAC ¹⁾⁴⁾⁶⁾ | “.m4a” |
| WMA9 Standard ¹⁾⁴⁾ | “.wma” |
| LPCM | “.wav” |

Photo

| File format | Extensions |
|-------------|-------------------------|
| JPEG | “.jpg,” “.jpeg,” “.jpe” |

¹⁾The system does not play files encoded with DRM.

²⁾Canadian models only

ABOUT DIVX VIDEO: DivX[®] is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified[®] device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.


³⁾The system plays AVCHD-format files that are recorded via a digital video camera, etc. To watch AVCHD-format files, the disc with AVCHD-format files on it must be finalized.

⁴⁾The system does not play files encoded with Lossless, etc.

⁵⁾The system does not play these files via the DLNA function.

⁶⁾The system plays SD resolution only via the DLNA function.

Note

- Some files may not play depending on the file format, the file encoding, the recording condition, or DLNA server condition.
- Some files edited on a PC may not play.
- The system can recognize the following files or folders in BDs, DVDs, CDs and USB devices:
 - up to folders in the 5th tree
 - up to 500 files in a single tree
- The system can recognize the following files or folders stored in the DLNA server:
 - up to folders in the 20th tree
 - up to 999 files in a single tree
- Some USB devices may not work with this system.
- The system can recognize Mass Storage Class (MSC) devices (such as flash memory or an HDD) that are FAT-compatible and non-partitioned, Still Image Capture Devices (SICDs), and 101-key keyboards (front  (USB) port only).
- To avoid data corruption or damage to USB memory or other devices, turn the system off before connecting or removing USB memory or other devices.
- The system may not play high bit rate video files from a DATA CD smoothly. It is recommended to play high bit rate video files using a DATA DVD.

Supported Audio Formats

Audio formats supported by this system are as follows.

| Function | Format | | | | | | | |
|-------------------------------------|----------|---------------------------|---------------|-------------------------------------|-----|--|---------------------------------------|---------------------------|
| | LPCM 2ch | LPCM 5.1ch, LPCM 7.1ch | Dolby Digital | Dolby TrueHD, Dolby Digital Plus | DTS | DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS96/24 | DTS-HD High Resolution Audio | DTS-HD Master Audio |
| "BD/DVD" | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| "HDMI (IN 1)" "HDMI (IN 2)" | ○ | ○ | ○ | - | ○ | - | - | - |
| "SAT/CABLE" "TV" (DIGITAL IN) | ○ | - | ○ | - | ○ | - | - | - |

○: Supported format.

-: Unsupported format.

Note

- HDMI (IN 1) and HDMI (IN 2) do not input sound in the case of an audio format that contains copy protections such as Super Audio CD or DVD-Audio.

Video Output Resolution

Output resolution differs depending on the [Output Video Format] setting in [Screen Settings] (page 60).

| Resolution setting | When [Output Video Format] is set to [HDMI] | | | When [Output Video Format] is set to [Component Video] | | |
|--------------------|---|---------------------------|---------------|--|---------------------------|---------------|
| | VIDEO OUT jack | COMPONENT VIDEO OUT jacks | HDMI OUT jack | VIDEO OUT jack | COMPONENT VIDEO OUT jacks | HDMI OUT jack |
| 480i | 480i | 480i | 480i | 480i | 480i | 480i |
| 480p | 480i | 480p | 480p | 480i | 480p | 480p |
| 720p | 480i | 720p* | 720p | 480i | 720p* | 720p |
| 1080i | 480i | 1080i* | 1080i | 480i | 1080i* | 1080i |
| 1080p | 480i | 1080i* | 1080p | unselectable | unselectable | unselectable |

* Protected contents on DVDs are output at 480p resolution.

When [Output Video Format] is set to [Video]

480i video signals are output from the VIDEO OUT or COMPONENT VIDEO OUT jack, and 480p video signals are output from the HDMI OUT jack.

Specifications

Amplifier Section

U.S. models:

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

(FTC)

Front L + Front R: With 3 ohms loads, both channels driven, from 180 Hz - 20,000 Hz; rated 60 W per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milli watts to rated output.

Other models:

POWER OUTPUT (rated)

Front L + Front R: 105 W + 105 W (at 3 ohms, 1 kHz, 1% THD)

POWER OUTPUT (reference)

Front L/Front R/Center: 167 W (per channel at 3 ohms, 1 kHz)

Subwoofer: 165 W (at 3 ohms, 80 Hz)

Inputs (Analog)

AUDIO (AUDIO IN) Sensitivity: 450/250 mV

Inputs (Digital)

DIGITAL IN (SAT/CABLE COAX), DIGITAL IN (TV OPT)
Supported formats: LPCM 2CH (up to 48 kHz), Dolby Digital, DTS

Video Section

Outputs

VIDEO: 1 V_{p-p} 75 ohms

COMPONENT:

Y: 1 V_{p-p} 75 ohms

P_B/C_B, P_R/C_R: 0.7 V_{p-p} 75 ohms

HDMI Section

Connector

Type A (19pin)

Video inputs

HDMI (IN 1), HDMI (IN 2):

640 × 480p@60 Hz

720 × 480i@59.94/60 Hz

720 × 480p@59.94/60 Hz

1280 × 720p@59.94/60 Hz

1920 × 1080i@59.94/

60 Hz

1920 × 1080p@59.94/

60 Hz

720 × 576i@50 Hz

720 × 576p@50 Hz

1280 × 720p@50 Hz

1920 × 1080i@50 Hz

1920 × 1080p@50 Hz

1920 × 1080p@24 Hz

BD/DVD/Super Audio CD/CD System

Signal format system

NTSC

USB Section

↔ (USB) port:

Type A (For connecting USB memory, memory card reader, digital still camera, and digital video camera)

Maximum current:

500 mA

LAN Section

LAN (100) terminal

100BASE-TX Terminal

Tuner Section

System

PLL quartz-locked digital synthesizer

FM tuner section

Tuning range

87.5 MHz - 108.0 MHz (100 kHz step)

Antenna (aerial)

FM wire antenna (aerial)

Antenna (aerial) terminals

75 ohms, unbalanced

Intermediate frequency

10.7 MHz

Speakers

Front (SS-TSB102) for BDV-HZ970W

Speaker system

Full range Bass reflex

Speaker unit

55 mm × 80 mm (2 1/4 in × 3 1/4 in) cone type

Rated impedance

3 ohms

Dimensions (approx.)

75 mm × 610 mm × 70 mm (3 in × 24 1/16 in × 2 7/8 in) (w/h/d) (wall-mounted part)

Floor: 250 mm × 1,000 mm × 250 mm (9 7/8 in × 39 3/8 in × 9 7/8 in) (w/h/d) (whole speaker)

Desktop: 250 mm × 727 mm × 250 mm (9 7/8 in × 28 3/8 in × 9 7/8 in) (w/h/d) (whole speaker)

Mass (approx.)

0.9 kg (2 lb) (wall-mounted part)

Floor: 2.0 kg (4 lb 7 oz) (whole speaker)

Desktop: 1.9 kg (4 lb 3 oz) (whole speaker)

Surround (SS-TSB101) for BDV-HZ970W

| | |
|----------------------|---|
| Speaker system | Full range Bass reflex |
| Speaker unit | 55 mm × 80 mm (2 1/4 in × 3 1/4 in) cone type |
| Rated impedance | 3 ohms |
| Dimensions (approx.) | 75 mm × 225 mm × 71 mm (3 in × 8 7/8 in × 2 7/8 in) (w/h/d) |
| Mass (approx.) | 0.45 kg (1 lb) |

Front/Surround (SS-TSIZ1) for BDV-IZ1000W

| | |
|------------------------------------|--|
| Speaker system | 2-Way 2-Driver speaker system, Bass reflex |
| Speaker unit | |
| Tweeter: | 20 mm (3/4 in) cone type |
| Woofer: | 40 mm × 70 mm (1 9/16 in × 2 3/4 in) cone type |
| Rated impedance | 3 ohms |
| Dimensions (approx.) | |
| Front speaker (after assembly): | 200 mm × 1,100 mm × 230 mm (7 7/8 in × 43 1/3 in × 9 1/16 in) (w/h/d) (vertical angle) |
| | 200 mm × 1,100 mm × 255 mm (7 7/8 in × 43 1/3 in × 10 in) (w/h/d) (upward angle) |
| Surround speaker (after assembly): | 103 mm × 335 mm × 103 mm (4 1/16 in × 13 3/16 in × 4 1/16 in) (w/h/d) (vertical angle) |
| | 103 mm × 356 mm × 103 mm (4 1/16 in × 14 in × 4 1/16 in) (w/h/d) (upward angle) |

| | |
|------------------------------------|--------------------|
| Mass (approx.) | |
| Front speaker (after assembly): | 2.9 kg (6 lb 6 oz) |
| Surround speaker (after assembly): | 0.6 kg (1 lb 5 oz) |

Center (SS-CTB101)

| | |
|----------------------|---|
| Speaker system | Full range Acoustic suspension, Magnetically Shielded |
| Speaker unit | 30 mm × 60 mm (1 3/16 in × 2 3/8 in) cone type |
| Rated impedance | 3 ohms |
| Dimensions (approx.) | 290 mm × 49 mm × 49 mm (11 1/2 in × 1 15/16 in × 1 15/16 in) (w/h/d) |
| Mass (approx.) | 0.28 kg (10 oz) |

Subwoofer (SS-WSB102) for BDV-HZ970W

| | |
|----------------------|--|
| Speaker system | Subwoofer Bass reflex |
| Speaker unit | 180 mm (7 1/8 in) cone type |
| Rated impedance | 3 ohms |
| Dimensions (approx.) | 275 mm × 405 mm × 275 mm (10 7/8 in × 16 in × 10 7/8 in) (w/h/d) |
| Mass (approx.) | 7.5 kg (16 lb 12 oz) |

Subwoofer (SS-WSIZ1) for BDV-IZ1000W

| | |
|----------------------|--|
| Speaker system | Subwoofer Bass reflex |
| Speaker unit | 180 mm (7 1/8 in) cone type |
| Rated impedance | 3 ohms |
| Dimensions (approx.) | 275 mm × 405 mm × 275 mm (10 7/8 in × 16 in × 10 7/8 in) (w/h/d) |
| Mass (approx.) | 7.5 kg (16 lb 12 oz) |

General

| | |
|----------------------|---|
| Power requirements | 120 V AC, 60 Hz |
| Power consumption | On: 110 W Standby: 0.3 W (at the Power Saving mode) |
| Dimensions (approx.) | 430 mm × 83 mm × 355 mm (17 in × 3 3/8 in × 14 1/8 in) (w/h/d) incl. projecting parts such as the wireless transceiver slot; 430 mm × 83 mm × 384 mm (17 in × 3 3/8 in × 15 1/4 in) (w/h/d) incl. the wireless transceiver (EZW-RT10) |
| Mass (approx.) | 5.3 kg (11 lb 11 oz) |

Surround amplifier (TA-SA200WR)

| | |
|---|---|
| Amplifier Section | |
| POWER OUTPUT AND TOTAL HARMONIC DISTORTION: | |
| (FTC) | With 3 ohms loads, both channels driven, from 120 - 20,000 Hz; rated 45 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milli watts to rated output. |
| POWER OUTPUT (reference) | 167 W (per channel at 3 ohms, 1 kHz) |
| Rated impedance | 3 - 16 Ω |
| General | |
| Power requirements | 120 V AC, 60 Hz |
| Power consumption | On: 50 W |

| | |
|---------------------------|--|
| Standby power consumption | 0.9 W (standby mode) 0.13 W (turned off) |
| Dimensions (approx.) | 206 mm × 60 mm × 256 mm (8 1/8 in × 2 3/8 in × 10 1/8 in) (w/h/d) with the wireless transceiver inserted |
| Mass (approx.) | 1.3 kg (2 lb 14 oz) |

Wireless transceiver (EZW-RT10/EZW-RT10A)

| | |
|----------------------|--|
| Communication system | S-AIR Specification version 1.0 |
| Frequency band | 2.4000 GHz - 2.4835 GHz |
| Modulation method | DSSS |
| Power requirements | DC 3.3 V, 350 mA |
| Dimensions (approx.) | 50 mm × 13 mm × 60 mm (2 in × 17/32 in × 2 3/8 in) (w/h/d) |
| Mass (approx.) | 24 g (1 oz) |

USB Wireless LAN Adapter (UWA-BR100)

| | |
|-----------------------------------|--|
| Standards Compliance: | IEEE 802.11a/b/g/n |
| Host Interface: | USB 2.0 |
| Security: | 64/128 bit: WEP, WPA/WPA2, WPS |
| Frequency and Channel*: | 2.4 GHz - 2.4835 GHz [CH1 - 11] 5.15 GHz - 5.25 GHz [CH36 - 48] 5.25 GHz - 5.35 GHz [CH52 - 64] 5.47 GHz - 5.725 GHz [CH100 - 140] 5.725 GHz - 5.85 GHz [CH149 - 165] |
| Data Rate**: | 802.11a/g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps 802.11b: 11, 5.5, 2 and 1 Mbps 802.11n: up to 300 Mbps (40 MHz/spatial streams: 2) |
| Power consumption: | Tx: up to 500 mA |
| Mass (Approx.): | USB Wireless LAN Adapter: 27 g (1 oz) |
| Dimensions (Approx.) (w × h × d): | USB Wireless LAN Adapter: 96 mm × 14 mm × 27 mm (3 7/8 in × 9/16 in × 1 1/8 in) |

* The frequency and channel differ depending on the area.

** The transmission speed differs depending on the distance and number of obstructions between the

transmission products, the configuration of products, the radio wave conditions, the line traffic, and the products that you use. The transmission may also be cut off depending on the radio wave conditions. The standard values of the transmission speed are the theoretical maximum values for the wireless standards. They are not the actual speeds of data transmission.

Design and specifications are subject to change without notice.

- Standby power consumption 0.3W (main unit), 0.13W (surround amplifier).
- Halogenated flame retardants are not used in the certain printed wiring boards.
- Over 85% power efficiency of amplifier block is achieved with the full digital amplifier, S-Master.

Language Code List

The language spellings conform to the ISO 639: 1988 (E/F) standard.

| Code | Language | Code | Language | Code | Language | Code | Language |
|------|--------------------|------|------------------|------|--------------------|------|---------------|
| 1027 | Afar | 1183 | Irish | 1347 | Maori | 1507 | Samoan |
| 1028 | Abkhazian | 1186 | Scots Gaelic | 1349 | Macedonian | 1508 | Shona |
| 1032 | Afrikaans | 1194 | Galician | 1350 | Malayalam | 1509 | Somali |
| 1039 | Amharic | 1196 | Guarani | 1352 | Mongolian | 1511 | Albanian |
| 1044 | Arabic | 1203 | Gujarati | 1353 | Moldavian | 1512 | Serbian |
| 1045 | Assamese | 1209 | Hausa | 1356 | Marathi | 1513 | Siswati |
| 1051 | Aymara | 1217 | Hindi | 1357 | Malay | 1514 | Sesotho |
| 1052 | Azerbaijani | 1226 | Croatian | 1358 | Maltese | 1515 | Sundanese |
| 1053 | Bashkir | 1229 | Hungarian | 1363 | Burmese | 1516 | Swedish |
| 1057 | Byelorussian | 1233 | Armenian | 1365 | Nauru | 1517 | Swahili |
| 1059 | Bulgarian | 1235 | Interlingua | 1369 | Nepali | 1521 | Tamil |
| 1060 | Bihari | 1239 | Interlingue | 1376 | Dutch | 1525 | Telugu |
| 1061 | Bislama | 1245 | Inupiak | 1379 | Norwegian | 1527 | Tajik |
| 1066 | Bengali; Bangla | 1248 | Indonesian | 1393 | Occitan | 1528 | Thai |
| 1067 | Tibetan | 1253 | Icelandic | 1403 | (Afan)Oromo | 1529 | Tigrinya |
| 1070 | Breton | 1254 | Italian | 1408 | Oriya | 1531 | Turkmen |
| 1079 | Catalan | 1257 | Hebrew | 1417 | Punjabi | 1532 | Tagalog |
| 1093 | Corsican | 1261 | Japanese | 1428 | Polish | 1534 | Setswana |
| 1097 | Czech | 1269 | Yiddish | 1435 | Pashto; Pushto | 1535 | Tonga |
| 1103 | Welsh | 1283 | Javanese | 1436 | Portuguese | 1538 | Turkish |
| 1105 | Danish | 1287 | Georgian | 1463 | Quechua | 1539 | Tsonga |
| 1109 | German | 1297 | Kazakh | 1481 | Rhaeto- Romance | 1540 | Tatar |
| 1130 | Bhutani | 1298 | Greenlandic | 1482 | Kirundi | 1543 | Twi |
| 1142 | Greek | 1299 | Cambodian | 1483 | Romanian | 1557 | Ukrainian |
| 1144 | English | 1300 | Kannada | 1489 | Russian | 1564 | Urdu |
| 1145 | Esperanto | 1301 | Korean | 1491 | Kinyarwanda | 1572 | Uzbek |
| 1149 | Spanish | 1305 | Kashmiri | 1495 | Sanskrit | 1581 | Vietnamese |
| 1150 | Estonian | 1307 | Kurdish | 1498 | Sindhi | 1587 | Volapük |
| 1151 | Basque | 1311 | Latin | 1501 | Sangho | 1613 | Wolof |
| 1157 | Persian | 1313 | Lingala | 1502 | Serbo-Croatian | 1632 | Xhosa |
| 1165 | Finnish | 1326 | Laothian | 1503 | Singhalese | 1665 | Yoruba |
| 1166 | Fiji | 1327 | Lithuanian | 1505 | Slovak | 1684 | Chinese |
| 1171 | Faroese | 1332 | Latvian; Lettish | 1506 | Slovenian | 1697 | Zulu |
| 1174 | French | 1334 | Malagasy | | | | |
| 1181 | Frisian | 1345 | | | | 1703 | Not specified |

Additional Information

Parental Control/Area Code List

| Code | Area | Code | Area | Code | Area | Code | Area |
|------|-----------|------|------------|------|-------------|------|----------------|
| 2044 | Argentina | 2109 | Germany | 2362 | Mexico | 2499 | Sweden |
| 2047 | Australia | 2200 | Greece | 2376 | Netherlands | 2086 | Switzerland |
| 2046 | Austria | 2219 | Hong Kong | 2390 | New Zealand | 2543 | Taiwan |
| 2057 | Belgium | 2248 | India | 2379 | Norway | 2528 | Thailand |
| 2070 | Brazil | 2238 | Indonesia | 2427 | Pakistan | 2184 | United Kingdom |
| 2090 | Chile | 2239 | Ireland | 2424 | Philippines | | |
| 2092 | China | 2254 | Italy | 2428 | Poland | | |
| 2093 | Colombia | 2276 | Japan | 2436 | Portugal | | |
| 2115 | Denmark | 2304 | Korea | 2489 | Russia | | |
| 2165 | Finland | 2333 | Luxembourg | 2501 | Singapore | | |
| 2174 | France | 2363 | Malaysia | 2149 | Spain | | |

Glossary

AVCHD

The AVCHD format is a high-definition digital video camera format used to record SD (standard definition) or HD (high definition) signals of either the 1080i specification* or the 720p specification** on DVDs, using efficient data compression coding technology. The MPEG-4 AVC/H.264 format is adopted to compress video data, and the Dolby Digital or Linear PCM system is used to compress audio data. The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compression format. The MPEG-4 AVC/H.264 format enables a high definition (HD) video signal shot on a digital video camera recorder to be recorded on DVD discs in the same way as it would be for a standard definition (SD) television signal.

* A high definition specification that utilizes 1080 effective scanning lines and the interlace format.

** A high definition specification that utilizes 720 effective scanning lines and the progressive format.

BD-J application

The BD-ROM format supports Java for interactive functions. “BD-J” offers content providers almost unlimited functionality when creating interactive BD-ROM titles.

BD-R

BD-R (Blu-ray Disc Recordable) is a recordable, write-once Blu-ray Disc, available in the same capacities as the BD below. Since contents can be recorded and cannot be overwritten, a BD-R can be used to archive valuable data or store and distribute video material.

BD-RE

BD-RE (Blu-ray Disc Rewritable) is a recordable and rewritable Blu-ray Disc, available in the same capacities as the BD below. The re-recordable feature makes extensive editing and time-shifting applications possible.

BD-ROM

BD-ROMs (Blu-ray Disc Read-Only Memory) are commercially produced discs and are available in the same capacities as the BD below. Other than conventional movie and video contents, these discs have enhanced features such as interactive content, menu operations using pop-up menus, selection of subtitle display, and slideshow. Although a BD-ROM may contain any form of data, most BD-ROM discs will contain movies in High Definition format, for playback on Blu-ray Disc/DVD players.

Blu-ray Disc (BD)

A disc format developed for recording/playing high-definition (HD) video (for HDTV, etc.), and for storing large amounts of data. A single layer Blu-ray Disc holds up to 25 GB, and a dual-layer Blu-ray Disc holds up to 50 GB of data.

Digital Cinema Auto Calibration (D.C.A.C)

Digital Cinema Auto Calibration was developed by Sony to automatically measure and adjust the speaker settings to your listening environment in a short period of time.

Dolby Digital

This movie theater sound format is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range, and a subwoofer channel for deep bass is independently provided. This format is also called “5.1” with the subwoofer channel designed as the 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately for superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Digital Plus

Developed as an extension to Dolby Digital, the audio coding technology supports 7.1 multi-channel surround sound.

Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from 2 channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

■ **Movie mode**

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced sound field directionality that approaches the quality of discrete 5.1-channel sound.

Dolby Surround Pro Logic

As one method of decoding Dolby Surround, Dolby Surround Pro Logic produces four channels from 2 channel sound. Compared with the former Dolby Surround system, Dolby Surround Pro Logic reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Surround Pro Logic, you should have one pair of surround speakers and a center speaker. The surround speakers output monaural sound.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology that supports up to 8 channels of multi-channel surround sound for the next generation of optical discs. The reproduced sound is true to the original source bit-for-bit.

DTS

Digital audio compression technology developed by DTS, Inc. This technology conforms to 5.1-channel surround. This format includes a stereo rear channel and a discrete subwoofer channel. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized due to the all channel data being recorded discretely and processed in digitally.

DTS Neo:6

This technology converts 2 channels stereo recorded audio for 7 channels playback. There are two modes to select according to the playback source or your preference, CINEMA for movies, and MUSIC for stereo sources such as music.

DTS-HD High Resolution Audio

Developed as an extension to DTS Digital Surround format. It supports a maximum sampling frequency of 96 kHz, and 7.1 multi-channel surround.

DTS-HD High Resolution Audio has a maximum transmission rate of 6 Mbps, with lossy compression.

DTS-HD Master Audio

DTS-HD Master Audio has a maximum transmission rate of 24.5 Mbps, and uses lossless compression, and DTS-HD Master Audio corresponds to a maximum sampling frequency of 192 kHz, and maximum of 7.1ch.

HD Digital Cinema Sound (HD-D.C.S.)

HD Digital Cinema Sound (HD-D.C.S.) is Sony's new innovative home theater technology using the latest acoustic and digital signal processing technologies. It is based on precise response measurement data of a mastering studio.

With HD-D.C.S., you are able to enjoy Blu-ray and DVD movies at home with not only the high quality of sound, but also the best sound ambience, just as the movie's sound engineer intended in the mastering process.

HDMI (High-Definition Multimedia Interface)

HDMI is an interface that supports both video and audio on a single digital connection, allowing you to enjoy high quality digital picture and sound. The HDMI specification supports HDCP (High-bandwidth Digital Content Protection), a copy protection technology that incorporates coding technology for digital video signals.

Interlace format (Interlaced scanning)

The Interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice - alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

LTH (Low to High)

LTH is a recording system that supports organic pigment type BD-R.

Parental Control

A function of the BD/DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

PhotoTV HD

“PhotoTV HD” allows for highly-detailed pictures, and photo-like expression of subtle textures and colors. By connecting Sony “PhotoTV HD” compatible devices using an HDMI cable, a whole new world of photos can be enjoyed in breathtaking Full HD quality. For instance, the delicate texture of the human skin, flowers, sand and waves can now be displayed on a large screen in beautiful photo-like quality.

Pop-up menu

An enhanced menu operation available on BD-ROMs. The pop-up menu appears when POP UP/MENU is pressed during playback, and can be operated while playback is in progress.

Progressive format (sequential scanning)

In contrast to the Interlace format, the progressive format can reproduce 50 - 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system). The overall picture quality increases and still images, text and horizontal lines appear sharper. This format is compatible with the 525 or 625 progressive format.

S-AIR (Sony Audio Interactive Radio frequency)

Recent times have seen the rapid spread of BD/DVD media, digital broadcasting, and other high-quality media.

To ensure that the subtle nuances of these high-quality media are transmitted with no deterioration, Sony has developed a technology called “S-AIR” for the radio transmission of digital audio signals with no compression, and has incorporated this technology into the EZW-RT10/EZW-RT10A/EZW-T100.

This technology transfers digital audio signals with no compression using the 2.4 GHz band

range of ISM band (Industrial, Scientific, and Medical band), such as wireless LANs and Bluetooth applications.

24p True Cinema

Movies shot with a film camera consist of 24 frames per second.

Since conventional televisions (both CRT and flat panels) display frames either at 1/60 or 1/50 second intervals, the 24 frames do not appear at an even pace.

When connected to a TV with 24p capabilities, the player displays each frame at 1/24 second intervals — the same interval originally shot with the film camera, thus faithfully reproducing the original cinema image.

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The software of this system may be updated in the future. To find out details on any available updates, please visit: <http://www.sony.com/blurayhtsupport>



<http://www.sony.net/>

